SIEMENS

Data sheet

US2:87FUF60D



Pump control panel, Size 2, Three phase full voltage, Solid-state overload relay, OLR amp range 13-52A, 208VAC 60Hz coil, Standard type contactor, 100A fusible disconnect, 100A/600V fuse clip, HOA Sel Sw. <(>&<)> Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use

product brand name	Class 87
design of the product	Pump control panel with fused disconnect switch
special product feature	ESP200 overload relay
General technical data	
weight [lb]	48 lb
Height x Width x Depth [in]	29 × 20 × 8 in
touch protection against electrical shock	NA for enclosed products
installation altitude [ft] at height above sea level maximum	6560 ft
ambient temperature [°F]	
during storage	-22 +149 °F
during operation	-4 +104 °F
ambient temperature	
during storage	-30 +65 °C
during operation	-20 +40 °C
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	0 hp
• at 220/230 V rated value	0 hp
• at 460/480 V rated value	25 hp
• at 575/600 V rated value	25 hp
Contactor	
size of contactor	NEMA controller size 2
number of NO contacts for main contacts	3
operating voltage for main current circuit at AC at 60 Hz maximum	600 V
operational current at AC at 600 V rated value	45 A
mechanical service life (operating cycles) of the main contacts typical	1000000
Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts	0
number of NO contacts at contactor for auxiliary contacts	1
number of total auxiliary contacts maximum	7
contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
Coil	
type of voltage of the control supply voltage	AC
control supply voltage	
• at DC rated value	0 0 V
• at AC at 50 Hz rated value	0 0 V
• at AC at 60 Hz rated value	208 208 V
holding power at AC minimum	8.6 W

Appendix package (accounts) support values at walue of producting and factor control support values at walue of producting and values of the support values at walue of producting and values of the support values at walue of producting and values of the support value walue of producting at walues of the support value walues of the support of the support value of the support value walue of the support of the support value of the support value walue of the support value	apparent pick up nower of magnet coil at AC	218 VA
mignet Gol * Sol * votage Sol * votage Sol * OFF-day time 19 - 28 ms OFF-day time 10 - 24 ms OFF-day time 13 - 57 A Opposition times to time to the current 13 - 57 A Opposition times to time to the current 14 - 57 A Opposition times to time to the current 15 - 57 A Opposition to the current 10 - 24 ms OFF to the current time to the current 13 - 57 A Opposition to the current 14 - 50 ms OFF to the current time to the current 14 - 50 ms	apparent pick-up power of magnet coil at AC	
votage 1929 ms OFF-day time 1024 ms OPF-day time 1024 ms product function Yes • ventrad protection Yes • ventrad indice detection Yes • symmethy detection Yes • symmethy detection Yes • start function Yes • external reset Wes • external reset Yes • reset function Yes		0.05 1.1
OF-F-day time 10 24 ms Overlaad protection Yes • overlaad protection Overlaad overlaad read * overlaad protection Overlaad overlaad read * overlaad protection Overlaad read * overlaad protection overlaad read value S A • overlaad protection overlaad read value So A • overlaad protection overlaad read value Sou V		50 %
Overload roley Product function Yes evaluation of protection Yes evaluation of protection Yes evaluation of protection Yes evaluation of protection Yes evaluation of protection Yes evaluation Yes evaluation Yes evaluatis	ON-delay time	19 29 ms
product function Yes • Inhes failur detection Yes • symmetry detection Yes • symmetry detection Yes • east intraction Yes • east intraction Yes • east intraction Yes • easter function CLASS 6 / 10 (tackory set/) 20 / 30 diguisable current response value current of the current- 1352 A dependent overfield retaze 1352 A intraction overfield retaze 1452 A product fasture protective costing on printed-circuit bard Yes • east AC a 600 V 1 • east AC a 600 V 5 A • east Much disconnector 100A / 600V • east much or barbard careation at AC rated value 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value	OFF-delay time	10 24 ms
• verified protectionYes• symmetry detailorYes• argumet kuit detectionYes• argumet kuit detectionYes• est functionYes• est functionYes• est functionYes• est functionGLASS 5 / 10 (factory set) / 20 / 30• dipulsable current response value current of the current.13 52 Å• dipulsable current response value current of the current.3 s• relative repeat accuracy1 %• products of availing contacts of overload relay1• unmee of NC contacts of availing contacts of overload relay1• and C at 280 Y1 Å• at C at 280 Y1 Å• at C at 280 Y5 Å• at C at 280 Y5 Å• at C at 280 Y5 Å• with single-phase operation at AC rated value300 Y• with single-phase operation at AC rated value300 Y• with single-phase operation at AC rated value300 Y• ordiad for subtifiedClass H fase clips• ordiad for subtifiedClass H fase clips• ordiad for subtifiedClass H fase clips• ordiad for subtifiedSome metal housing with matte finish• ordiad for subtifiedSome metal housing with matte finish• ordiad for subtifiedSome metal housing with matte finish• ordiad for subtifiedSource• ordiad fo	Overload relay	
Phase failure detection Yes yeourd fault detection Yes yeourd fault detection Yes Yes wether mode is tel function Yes Yes wether mode is tel function is tel	product function	
esymmetry detection Yes ves	 overload protection 	Yes
	phase failure detection	Yes
	 asymmetry detection 	Yes
• external reset Yes reset function Manual, automatic and remote Image: Automatic and remote adjustable current response value current of the current- dependent overlaad release 1352.A Tripping time at phase-loss maximum 3 s relative repeat accuracy 1 % product feature protective coating on printed-circuit board Yes number of NC contracts of auxiliary contracts of overload relay 1 operational current of auxiliary contracts of overload relay 1 operational current of auxiliary contracts of overload relay 1 operational current of auxiliary contracts of overload relay 5 at CC at 280 V 5 i at CC at 280 V 5 insultation valtage (U) 600 V with multi-phase operation at AC rated value 300 V invert with multi-phase operation at AC rated value 300 V operation class of the fuse link Class H, Ligetrofitable), K and R Enclosure 100A / 600V design of the housing Weather proof for cuutdoor use Standard Control Devices 100A / 600V product component start push buton 30mm metal housi	 ground fault detection 	Yes
reset function Manual, automatic and remote trip class CLASS 5/ 10 (factory set) / 20 / 30 adjustable current response value current of the current- dependent overload release 1352 A impipel time at phase-loss maximum 3 s relative repeat accuracy 1% product feature protective coating on printed-circuit board Yes number of NC contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 5 A et AC at 600 V 5 A et AC at 600 V 5 A ontact ating of auxiliary contacts of overload relay according to U. 5A with single-phase operation at AC rated value 600 V with multi-phase operation at AC rated value 600 V overlation fusion for fusion fusion for fusion fusion for fusion for fusion for fusion for fusion for outdoor use Standard Control Divices forduct component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch Yes type of Hand-Off-Auto selector switch Yes type of Hand-	test function	Yes
trip class CLASS 5 / 10 (factory set) / 20 / 30 adjustable current response value current of the current- dependent verifoxal release 1352 A tripping time at phase-loss maximum 3 s releative repeat accuracy 1% product feature protective coating on printed-circuit board Yes number of NC contacts of auxiliary contacts of overload relay 1 ourset of NC contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 ourset of NC contacts of auxiliary contacts of overload relay 5 A • at DC at 250 V 1 A contact training of auxiliary contacts of overload relay 600 V • with mille-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 600 V • earboxer Class H J (circofittabe), K and R Enclosure Class H J (circofittabe), K and R	external reset	Yes
adjustable current response value current of the current dependent overviolar felaese tripping time at phase-loss maximum relative repeat accuracy product feature protective coaling on printed-circuit board yres number of NC contacts of auxiliary contacts of overload relay et al AC at 600 V et al CC at 600 V et al CC at 250 V fissibility contacts of overload relay et al CC at 600 V et al CC at 250 V fissibility contacts of overload relay et al CC at 250 V fissibility contacts of overload relay according to bulk insulation voltage (U) et with single-phase operation at AC rated value et with single-phase operation at AC rated value feesing of taxe holder contact string of auxiliary contacts of overload relay according to Discontact string of auxiliary contacts of overload relay et with single-phase operation at AC rated value feesing of taxe holder class H fuse clips operating class of the fuse link feasing of the housing for duct component Hand-Olf-Auto selector switch fype of Hand-Olf-Auto selector switch fype of Hand-Olf-Auto selector switch fype of land-Olf-Auto selector switch fype of onectable conductor for supply voltage line-side for fype of connectable conductor cross-sections for for Olf actions for land-side outgoing feeder for land-side outgoing	reset function	Manual, automatic and remote
dependent overload release ripping time at phase-loss maximum 3 s relative repeat accuracy 1 % product teature protective coating on printed-circuit board Yes number of NC contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 5 A • at OC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5 A • at OC at 250 V 1 A contact rating of auxiliary contacts of overload relay according to 5 A@@OVAC (B600), 1A@250VDC (R300) uit insultation voltage (U) • • with single-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 000 V Descontact Switch Class H fuse clips operating class of the fuse link Class H fuse clips operating class of the fuse link Class H fuse clips design of the housing Weather proof for outdoor use Standard Control Devices Ves type of fact ouronponent Hand-Off-Auto selector switch	trip class	CLASS 5 / 10 (factory set) / 20 / 30
relative repeat accuracy 1 % product feature protective coating on printed-circuit board Yes number of NC contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 5 A • at DC at 250 V 1 A contact align of auxiliary contacts of overload relay according to 5 A@@@UVAC (B600), 1A@250VDC (R300) insulation voltage (U) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 000 V Disconnect.Switch 100A / 600V response value of switch disconnector 100A / 600V degree of protection NEMA rating of the enclosure NEMA Type 3R design of the housing Weather proof for outdoor use Standard Control Dovicos 9 product component Hand-Off-Auto selector switch Yes type of start push button		13 52 A
product feature protective coaling on printed-circuit board Yes number of NC contacts of auxiliary contacts of overload relay 1 oparational current of auxiliary contacts of overload relay 1 oparational current of auxiliary contacts of overload relay 5 A • at AC at 600 V 5 A • at DC at 250 V 1 A contact auxiliary contacts of overload relay according to UL 5A@600VAC (B600), 1A@250VDC (R300) • with single-phase operation at AC rated value 600 V • with single-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 900 V Disconnect Switch 100A / 600V design of fuse holder Class H fuse clips operating class of the fuse link Class H fuse clips product component Hand-Off-Auto selector switch Yes type of farth auxiliary contacts of switch Yes product component Hand-Off-Auto selector switch Yes product component Hand-Off-Aut	tripping time at phase-loss maximum	3 s
number of NC contacts of auxiliary contacts of overload relay 1 number of NO contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 et at C at 600 V 5 A et at D C at 250 V 1 A contact rating of auxiliary contacts of overload relay according to 5 A ut D C at 250 V 1 A contact rating of auxiliary contacts of overload relay according to 5 A ut D C at 250 V 1 A contact rating of auxiliary contacts of overload relay according to 5 A ut D C at 250 V 1 A contact rating of auxiliary contacts of overload relay according to 5 A ut D C at 250 V 1 A contact switch 600 V with mult-phase operation at AC rated value 300 V Disconnect Switch Class H fuse clps operating class of the fuse link Class H fuse clps contact rating of the enclosure NEMA Type 3R design of the housing Weather proof for outdoor use Standard Control Devices product component Hand-Off-Auto selector switch product component Hand-Off-Auto selector switch 30m metal housing with mate finish	relative repeat accuracy	1 %
number of NO contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 5 A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay according to U 5 A uit bit at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay according to U 5 A uit bit bit bit bit bit bit bit bit bit b	product feature protective coating on printed-circuit board	Yes
operational current of auxiliary contacts of overload relay 5 A • at DC at 260 V 5 A • at DC at 260 V 1 A contact rating of auxiliary contacts of overload relay according to UL 5A@@00VAC (B600), 1A@250VDC (R300) • with single-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 600 V Disconnect Switch 600 V response value of switch disconnector 100A / 600V design of fuse holder Class H fuse clips operating class of the fuse link Class H, J (retrofittable), K and R Enclosure NEMA Type 3R design of the housing Weather proof for outdoor use Standard Control Devices 1 product component Hand-Off-Auto selector switch Yes type of start push button Yes storing of behousing Surface mounting with matte finish mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side for AWG cables single or multi-stranded 1x (14 10 AWG) Vype of otart push button Surface mounting and installation 1x (14 10 AWG) t	number of NC contacts of auxiliary contacts of overload relay	1
• at AC at 600 V 5 A • at DC at 250 V 1A contact rating of auxiliary contacts of overload relay according to 5A@600VAC (B600), 1A@250VDC (R300) uit finite contact rating of auxiliary contacts of overload relay according to 5A@600VAC (B600), 1A@250VDC (R300) insultation voltage (U) 600 V 600 V • with multi-phase operation at AC rated value 500 V • with multi-phase operation at AC rated value 500 V Disconnect Switch Class H Use clips operating class of the fuse link Class H Use clips operating class of the fuse link Class H, J (retrofittable), K and R Enclosure Veather proof for outdoor use Standard Control Devices Product component Hand-Off-Auto selector switch product component start push button Yes type of start push button Yes type of start push button Surface mounting and installation type of connectable conductor cross-sections at line-side for XWG cables single or multi-stranded target ing rorage [lof-in] for supply 120	number of NO contacts of auxiliary contacts of overload relay	1
• at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay according to UL 5A@600VAC (B600), 1A@250VDC (R300) insulation voltage (U) 600 V • with single-phase operation at AC rated value 600 V overload with-phase operation at AC rated value 300 V Disconnect Switch 000 / 000V design of fuse holder Class H J (retrofitable), K and R enclosure Class H J (retrofitable), K and R Enclosure NEMA Type 3R design of the housing Weather proof for outdoor use Standard Control Devices Total action NEMA rating of the enclosure product component Hand-Off-Auto selector switch Yes type of start push button Yes type of start push button Yes type of start push button Yes type of electrical connection for supply voltage line-side Box lug type of electrical connection for supply voltage line-side Box lug type of electrical connection for supply woltage line-side for AWG cables single or multi-stranded Surface mounting and installation type of electrical connection for supply woltage line-side for C AL or CU <t< td=""><td>operational current of auxiliary contacts of overload relay</td><td></td></t<>	operational current of auxiliary contacts of overload relay	
contact rating of auxiliary contacts of overload relay according to UL. 5A@600VAC (B600), 1A@250VDC (R300) insulation voltage (U) • with single-phase operation at AC rated value 600 V • with single-phase operation at AC rated value 600 V 0 bisconnect Switch response value of switch disconnector 100A / 600V design of fuse holder Class H fuse clips class H use clips operating class of the fuse link Class H, J (retrofittable), K and R Enclosure design of the housing Weather proof for outdoor use Standard Control Devices product component Hand-Off-Auto selector switch Yes Yes type of Fland-Off-Auto selector switch Yes Yes type of start push button Yes Surface mounting and installation type of start push button Yes Surface mounting and installation type of connectable conductor for supply voltage line-side Box lug 1x (14 1/0 AWG) type of electrical connection for supply maximum permissible 75 °C AL or CU type of electrical connection for load-side outgoing feeder 75 °C AL or CU type of electrical connection for load-side outgoing feeder 75 °C AL or CU type of electrical	• at AC at 600 V	5 A
UL Insulation voltage (U) Insulation voltage (U) • with single-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V Disconnect Switch 100A / 600V response value of switch disconnector 100A / 600V design of fuse holder Class H use clips operating class of the fuse link Class H use clips degree of protection NEMA rating of the enclosure NEMA Type 3R design of the housing Weather proof for outdoor use Standard Control Devices Product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch Yes type of start push button 30mm metal housing with matte finish Mounting/wiring mounting position fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Box lug Ightening torque [Ibf in] for supply 120 120 Ibf in type of electrical connection for load-side outgoing feeder AL or CU type of connectable conductor ross-sections at line-side for AVG cables 1x (14 2AWG) for load-side outgoing feeder 45 45 Ibf in type of electrical connection for load-side outgoing feeder 45 45 Ibf in type of electrical connectin for load-side outgoing feeder 45 45 Ibf	• at DC at 250 V	1 A
with single-phase operation at AC rated value with multi-phase operation at AC rated value 300 V Disconnect Switch response value of switch disconnector design of fuse holder Class H fuse clips operating class of the fuse link Class H, J (retrofittable), K and R Enclosure degree of protecton NEMA rating of the enclosure MEMA Type 3R design of the housing Weather proof for outdoor use Standard Control Devices Irroduct component Hand-Off-Auto selector switch Yes type of start push button Yes type of start push button type of start push button type of electrical connection for supply voltage line-side for line in supply to rule in the index of the substite type of electrical connection for supply maximum permissible material of the conductor for load-side outgoing feeder type of concectable conductor for load-side outgoing feeder type of electrical connection for load-side outgoing feeder to (L14		5A@600VAC (B600), 1A@250VDC (R300)
• with multi-phase operation at AC rated value 300 V Disconnect Switch	insulation voltage (Ui)	
Disconnect Switch IO0A / 600V response value of switch disconnector 100A / 600V design of fuse holder Class H fuse clips operating class of the fuse link Class H J (retrofittable), K and R Enclosure NEMA Type 3R degree of protection NEMA rating of the enclosure NEMA Type 3R design of the housing Weather proof for outdoor use Standard Control Devices product component Hand-Off-Auto selector switch product component start push button Yes type of start push button Yes type of start push button Yes mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side for AWC cables single or multi-stranded Tx (14 1/0 AWG) AWG AL or CU type of electrical connection for supply maximum permissible tightening torque [Ibf-in] for supply maximum permissible Tx (14 1/0 AWG) tightening torque [Ibf-in] for load-side outgoing feeder Box lug tightening torque [Ibf-in] for load-side outgoing feeder Box lug tightening torque [Ibf-in] for load-side outgoing feeder <td< td=""><td> with single-phase operation at AC rated value </td><td>600 V</td></td<>	 with single-phase operation at AC rated value 	600 V
response value of switch disconnector 100A / 600V design of fuse holder Class H fuse clips operating class of the fuse link Class H, J (retrofittable), K and R Enclosure degree of protection NEMA rating of the enclosure NEMA Type 3R design of the housing Weather proof for outdoor use Standard Control Devices product component Hand-Off-Auto selector switch Yes type of Hand-Off-Auto selector switch Yes type of Hand-Off-Auto selector switch Yes type of start push button Yes type of start push button Yes mounting position Vertical fastening method Surface mounting and installation type of connectable conductor for supply voltage line-side Box lug tightening torque [lbf:in] for supply 120 120 lbf:in type of connectable conductor for supply maximum permissible 75 °C material of the conductor for load-side outgoing feeder 45 45 lbf:in type of electrical connectable conductor crose-sections for AWG cables for load-side outgoing feeder 45 45 lbf:in type of electrical connectable conductor for load-side outgoing feeder 1x (14 2 AWG) <td> with multi-phase operation at AC rated value </td> <td>300 V</td>	 with multi-phase operation at AC rated value 	300 V
design of fuse holder Class H fuse clips operating class of the fuse link Class H, J (retrofittable), K and R Enclosure NEMA Type 3R design of the housing Weather proof for outdoor use Standard Control Devices Product component Hand-Off-Auto selector switch Yes type of Hand-Off-Auto selector switch Yes Yes type of Hand-Off-Auto selector switch Yes Yes type of Hand-Off-Auto selector switch Yes Somm metal housing with matte finish product component start push button Yes Yes type of start push button Somm metal housing with matte finish Mounting/wiring mounting position Vertical fastening method Surface mounting and installation type of selectrical connection for supply voltage line-side tightening torque [Ibf-in] for supply 120 120 Ibf-in type of selectrical conductor cross-sections at line-side for ALV cables single or multi-stranded Tac 120 Ibf-in type of electrical connection for load-side outgoing feeder temperature of the conductor for supply AL or CU type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder Ix (14 2 AWG) tx (14 2 AW	Disconnect Switch	
operating class of the fuse link Class H, J (retrofittable), K and R Enclosure NEMA Type 3R design of the housing Weather proof for outdoor use Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch Yes type of start push button Yes type of start push button Yes type of start push button Surface mounting with matte finish Mounting/wiring mounting with matte finish mounting optition Vertical fastening method Surface mounting and installation type of connectable conductor for supply voltage line-side Box lug tightening torque [lbf-in] for supply 120 120 lbf-in type of connectable conductor for supply maximum permissible 75 °C material of the conductor for supply maximum permissible 75 °C material of the conductor cross-sections for AWG cables 1x (14 2 AWG) type of electrical connectable conductor cross-sections for AWG cables 1x (14 2 AWG) tightening torque [lbf-in] for load-side outgoing feeder 45 45 lbf-in type of electrical connectable conductor for load-side outgoing feeder	response value of switch disconnector	100A / 600V
Enclosure NEMA Type 3R design of the housing Weather proof for outdoor use Standard Control Devices Image: Component Hand-Off-Auto selector switch Yes product component Hand-Off-Auto selector switch Yes 30mm metal housing with matte finish product component start push button Yes Yes type of start push button Yes 30mm metal housing with matte finish Mounting/wiring 30mm metal housing and installation Mounting with matte finish mounting position Vertical Surface mounting and installation fastening method Surface mounting and installation Ype of electrical connection for supply voltage line-side go under the conductor corse-sections at line-side for AWG cables single or multi-stranded 1x (14 1/0 AWG) 1x (14 1/0 AWG) temperature of the conductor for supply maximum permissible 75 °C material of the conductor for supply maximum permissible 1x (14 2 AWG) type of electrical connection for load-side outgoing feeder 45 45 lbf-in 1ype of connectable conductor rorse-sections for AWG cables type of electrical connection for load-side outgoing feeder 75 °C 1x (14 2 AWG) 1x (14 2 AWG) te	design of fuse holder	
degree of protection NEMA rating of the enclosure NEMA Type 3R design of the housing Weather proof for outdoor use Standard Control Devices Product component Hand-Off-Auto selector switch Yes type of Hand-Off-Auto selector switch 30mm metal housing with matte finish Product component start push button type of start push button Yes 30mm metal housing with matte finish Mounting/wiring 30mm metal housing with matte finish mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Box lug tightening torque [lbf-in] for supply 120 120 lbf-in type of electrical connectable conductor for supply maximum permissible 75 °C AwdG cables single or multi-stranded To CU type of electrical connectable conductor for supply AL or CU type of electrical connectable conductor cross-sections for AWG cables 1x (14 2 AWG) tightening torque [lbf-in] for load-side outgoing feeder 45 45 lbf-in type of electrical connection for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 1x (14 2 AW		Class H fuse clips
design of the housing Weather proof for outdoor use Standard Control Devices product component Hand-Off-Auto selector switch Yes type of Hand-Off-Auto selector switch 30mm metal housing with matte finish product component start push button Yes type of start push button Yes mounting/wiring 0mm metal housing with matte finish mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Box lug tightening torque [lbf-in] for supply 120 120 lbf-in type of connectable conductor cross-sections at line-side for 1x (14 1/0 AWG) AWG cables single or multi-stranded T5 °C material of the conductor for supply maximum permissible 75 °C material of the conductor cross-sections for AWG cables 1x (14 2 AWG) for load-side outgoing feeder 45 45 lbf-in type of connectable conductor ror load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 5 °C material of the conductor for load-side outgoing feeder 1x (14 2 AWG) for load-side outgoing feeder 75 °C </td <td>operating class of the fuse link</td> <td></td>	operating class of the fuse link	
Standard Control Devices product component Hand-Off-Auto selector switch Yes type of Hand-Off-Auto selector switch 30mm metal housing with matte finish product component start push button Yes type of start push button 30mm metal housing with matte finish Mounting/wiring 30mm metal housing with matte finish Mounting/wiring 0 mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Box lug tightening torque [lbf-in] for supply 120 120 lbf-in type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded 1x (14 1/0 AWG) temperature of the conductor for supply maximum permissible 75 °C material of the conductor ross-sections for AWG cables 1x (14 2 AWG) tightening torque [lbf-in] for load-side outgoing feeder 45 45 lbf-in type of connectable conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C tightening torque [lbf-in] for load-side outgoing feeder 45 45 lbf-in type of connectable conductor cross-sections for AWG cables 1x (14 2		
product component Hand-Off-Auto selector switchYestype of Hand-Off-Auto selector switch30mm metal housing with matte finishproduct component start push buttonYestype of start push button30mm metal housing with matte finishMounting/wiring30mm metal housing with matte finishmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtightening torque [lbf-in] for supply120 120 lbf-intype of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded1x (14 1/0 AWG)type of electrical connection for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder1x (14 2 AWG)tightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder75 °Ctype of electrical connection for load-side outgoing feeder75 °Ctype of electrical connection for load-side outgoing feeder75 °Ctype of electrical connection for load-side outgoing feeder75 °Ctemperature of the conductor for load-sid	Enclosure	Class H, J (retrofittable), K and R
type of Hand-Off-Auto selector switch30mm metal housing with matte finishproduct component start push buttonYestype of start push button30mm metal housing with matte finishMounting/wiringmounting positionmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtightening torque [lbf-in] for supply120 120 lbf-intype of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded1x (14 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder1x (14 2 AWG)tightening torque [lbf-in] for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Ctype of connectable conductor for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder75 °Cmaximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder75 °Ctemperature of	Enclosure degree of protection NEMA rating of the enclosure	Class H, J (retrofittable), K and R NEMA Type 3R
product component start push buttonYestype of start push button30mm metal housing with matte finishMounting/wiringmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtightening torque [lbf:in] for supply120 120 lbf-intype of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded1x (14 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder1x (14 2 AWG)tightening torque [lbf:in] for load-side outgoing feederBox lugtightening torque [lbf.in] for load-side outgoing feederTS °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor for load-side outgoing feeder1x (14 2 AWG)tightening torque [lbf.in] for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feederAUGtype of connectable conductor for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of the	Enclosure degree of protection NEMA rating of the enclosure design of the housing	Class H, J (retrofittable), K and R NEMA Type 3R
type of start push button30mm metal housing with matte finishMounting/wiringmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtightening torque [lbf-in] for supply120 120 lbf-intype of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded1x (14 1/0 AWG)twpe of electrical connection for load-side outgoing feederBox lugtightening torque [lbf-in] for load-side outgoing feederBox lugtightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor for supplyAL or CUtype of connectable conductor for load-side outgoing feeder1x (14 2 AWG)tightening torque [lbf-in] for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder45 45 lbf-intype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of th	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use
Mounting/wiring mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Box lug tightening torque [lbf-in] for supply 120 120 lbf-in type of connectable conductor cross-sections at line-side for 1x (14 1/0 AWG) AWG cables single or multi-stranded 75 °C material of the conductor for supply AL or CU type of connectable conductor cross-sections for AWG cables 1x (14 2 AWG) tightening torque [lbf-in] for load-side outgoing feeder 45 45 lbf-in tightening torque [lbf in] for load-side outgoing feeder 1x (14 2 AWG) temperature of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 45 45 lbf-in type of connectable conductor cross-sections for AWG cables 1x (14 2 AWG) for load-side outgoing feeder 75 °C maximum permissible 75 °C material of the conductor for load-side outgoing feeder 75 °C maximum permissible 1x (14 2 AWG) temperature of the conductor for load-side outgoing feeder 1x (20 CU temperature of the conductor for load	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes
mounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtightening torque [lbf-in] for supply120 120 lbf-intype of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded1x (14 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections for AWG cables for load-side outgoing feederBox lugtightening torque [lbf-in] for load-side outgoing feederBox lugtightening torque [lbf-in] for load-side outgoing feederAt. ur CUtype of connectable conductor for supplyAL or CUtype of connectable conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feederBox lugtightening torque [lbf-in] for load-side outgoing feeder1x (14 2 AWG)tor connectable conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder <td>Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch</td> <td>Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish</td>	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish
fastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtightening torque [lbf-in] for supply120 120 lbf-intype of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded1x (14 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections for AWG cables1x (14 2 AWG)tightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor for load-side outgoing feeder1x (14 2 AWG)tightening torque [lbf-in] for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder45 45 lbf-intype of connectable conductor for load-side outgoing feeder1x (14 2 AWG)tor load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder1x (14 2 AWG)type of electrical connection for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of th	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish Yes
type of electrical connection for supply voltage line-sideBox lugtightening torque [lbf-in] for supply120 120 lbf-intype of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded1x (14 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections for AWG cables80x lugtightening torque [lbf-in] for load-side outgoing feeder80x lugtightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor for supple or multi-stranded1x (14 2 AWG)tor load-side outgoing feeder75 °Ctor load-side outgoing feeder45 45 lbf-intype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder maximum permissible75 °Ctype of electrical connection of magnet coilScrew-type terminals	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish Yes
tightening torque [lbf-in] for supply120 120 lbf-intype of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded1x (14 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederBox lugtightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor for supply1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder5° °Ctightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feederAL or CUtype of electrical connection of nagnet coilScrew-type terminals	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish Yes 30mm metal housing with matte finish
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded1x (14 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederBox lugtightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor for supply1x (14 2 AWG)type of connectable conductor for load-side outgoing feeder5° °Ctype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder1x (14 2 AWG)type of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feederAL or CUtype of electrical connection of nagnet coilScrew-type terminals	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical
AWG cables single or multi-strandedtemperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederBox lugtightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet coilScrew-type terminals	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position fastening method	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation
material of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederBox lugtightening torque [lbf·in] for load-side outgoing feeder45 45 lbf·intype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet coilScrew-type terminals	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug
type of electrical connection for load-side outgoing feederBox lugtightening torque [lbf-in] for load-side outgoing feeder45 45 lbf-intype of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder magnet coilAL or CUtype of electrical connection of magnet coilScrew-type terminals	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug 120 120 lbf-in
tightening torque [lbf·in] for load-side outgoing feeder 45 45 lbf·in type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded 1x (14 2 AWG) temperature of the conductor for load-side outgoing feeder maximum permissible 75 °C material of the conductor for load-side outgoing feeder AL or CU type of electrical connection of magnet coil Screw-type terminals	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug 120 120 lbf·in 1x (14 1/0 AWG)
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded 1x (14 2 AWG) temperature of the conductor for load-side outgoing feeder maximum permissible 75 °C material of the conductor for load-side outgoing feeder AL or CU type of electrical connection of magnet coil Screw-type terminals	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 1/0 AWG) 75 °C
for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder Material of the conductor for load-side outgoing feeder AL or CU type of electrical connection of magnet coil Screw-type terminals	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 1/0 AWG) 75 °C AL or CU
maximum permissible AL or CU material of the conductor for load-side outgoing feeder AL or CU type of electrical connection of magnet coil Screw-type terminals	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug 120 120 lbf·in 1x (14 1/0 AWG) 75 °C AL or CU Box lug
type of electrical connection of magnet coil Screw-type terminals	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug 120 120 lbf in 1x (14 1/0 AWG) 75 °C AL or CU Box lug 45 45 lbf in
	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 1/0 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x (14 2 AWG)
tightening torque [lbf-in] at magnet coil 5 12 lbf-in	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 1/0 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C
	Enclosure degree of protection NEMA rating of the enclosure design of the housing Standard Control Devices product component Hand-Off-Auto selector switch type of Hand-Off-Auto selector switch product component start push button type of start push button Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder	Class H, J (retrofittable), K and R NEMA Type 3R Weather proof for outdoor use Yes 30mm metal housing with matte finish Yes 30mm metal housing with matte finish Vertical Surface mounting and installation Box lug 120 120 lbf-in 1x (14 1/0 AWG) 75 °C AL or CU Box lug 45 45 lbf-in 1x (14 2 AWG) 75 °C AL or CU

type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded	2x (16 12 AWG)
temperature of the conductor at magnet coil maximum permissible	75 °C
material of the conductor at magnet coil	CU
type of electrical connection at contactor for auxiliary contacts	Screw-type terminals
tightening torque [lbf·in] at contactor for auxiliary contacts	10 15 lbf·in
type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)
temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C
material of the conductor at contactor for auxiliary contacts	CU
type of electrical connection at overload relay for auxiliary contacts	Screw-type terminals
tightening torque [lbf·in] at overload relay for auxiliary contacts	7 10 lbf·in
type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded	2x (20 14 AWG)
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	75 °C
material of the conductor at overload relay for auxiliary contacts	CU
Short-circuit current rating	
design of the fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)
certificate of suitability	NEMA ICS 2; UL 508
Further information	

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:87FUF60D

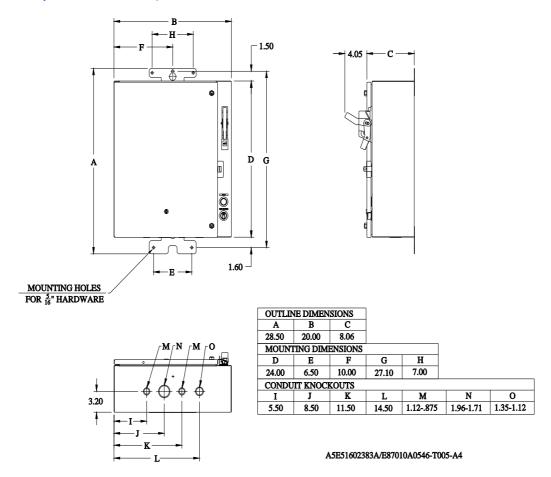
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

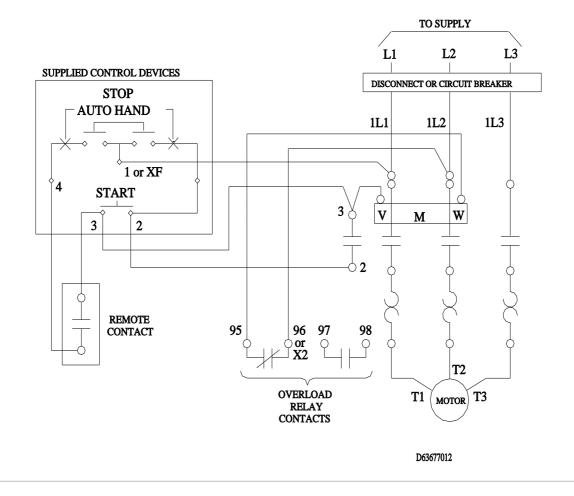
https://support.industry.siemens.com/cs/US/en/ps/US2:87FUF60D

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:87FUF60D&lang=en

Certificates/approvals

https://support.industry.s iemens.com/cs/US/en/ps/US2:87FUF60D/certificate





last modified:

1/25/2022 🖸