## SIEMENS

## Data sheet

## US2:87EUE6MA



Pump control panel, Size 1 3/4, Three phase full voltage, Solid-state overload relay, OLR amp range 10-40A, 110-120/220-240VAC 60Hz coil, Standard type contactor, 40A circuit breaker, HOA Sel Sw. <(>&<)> Start P.B., Enclosure NEMA type 3/3R, Weather proof outdoor use

Figuresimilar	r
---------------	---

product brand name	Class 87
design of the product	Pump control panel with MCP
special product feature	Half-size controller; ESP200 overload relay; Dual voltage coil
General technical data	
weight [lb]	47 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	
<ul> <li>during storage</li> </ul>	-30 +65 °C
<ul> <li>during operation</li> </ul>	-20 +40 °C
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
<ul> <li>at 200/208 V rated value</li> </ul>	0 hp
<ul> <li>at 220/230 V rated value</li> </ul>	0 hp
<ul> <li>at 460/480 V rated value</li> </ul>	15 hp
• at 575/600 V rated value	15 hp
Contactor	
size of contactor	Controller half size 1 3/4
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	40 A
mechanical service life (switching 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	8
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	

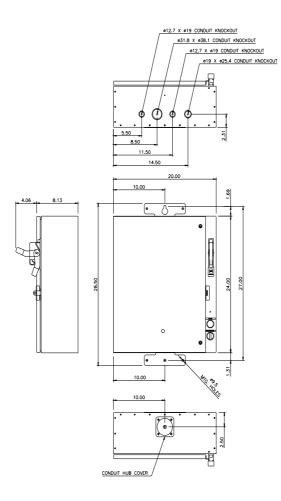
		0 01/
• at AC at 60 Hz rdb value     110240 V       bidding power of magnet coil at AC     219 VA       apparent holding power of magnet coil at AC     219 VA       apparent holding power of magnet coil at AC     219 VA       apparent holding power of magnet coil at AC     219 VA       apparent holding power of magnet coil at AC     219 VA       apparent holding power of magnet coil at AC     219 VA       apparent holding power of magnet coil at AC     219 VA       apparent holding power of magnet coil at AC     219 VA       apparent power of magnet coil at AC     219 VA       coverside power of magnet coil at AC     219 VA       coverside power of magnet coil related to the power of power of power of magnet coil related to the power of magnet coil related to the power of power po	• at DC rated value	0 0 V
helding power at AC minimum     8.4 W       apparent holding power of magnet call at AC     25 VA       operating range factor control supply voltage rated value     0.45 1.1       of mean and control supply voltage rated value     0.45 1.1       of mean and control supply voltage rated value     0.45 1.1       of mean and control supply voltage rated value     0.45 1.1       of mean and control supply voltage rated value     0.45 1.1       of Model by them     10 20 ms       OVerfoad ratay     10 24 ms       overfoad protection     Yes       • apprent fluid detection     Yes       • at fluid detection     Yes       • at fluid detection     Yes       • at fluid beta-fluid detection     Yes       • at fluid		
apparent pick-up power of magnet coil at AC         218 VA           apparent helicing power of magnet coil at AC         25 VA           operating range factor corrol supply voltage rated value of magnet coil         0.85 1.1           premental (rop-out voltage)         0.95 %           OM-delay time         19 28 ms           OVerdad rolay         0 24 ms           Overdad rolay         0 24 ms           Overdad rolay         Ves           asymet helicity detection         Yes           • overlida protection         CLASS 5 / 10 (factory set) / 20 / 30           • algustable current response value current of the current         10 - 40 A           trippolat factury		
apparent holding power of magnet coil at AC         25 VA           operating range coil         0.85 1.1           of magnet coil         0.85 1.1           of magnet coil         0.85 1.1           operating range coil values of magnet coil related to the provided protection         Yes           operating range coil         10 24 ms           Overload protection         Yes           operating range coil         Yes           reset function         Manual, automatic and remote           Upped coil         Yes           rest funct		
operating range factor control supply voltage rated value of magnet coll         0.85 1.1           percental drop-out voltage of magnet coll related to the input voltage.         50 %           CM-delay line         10 24 ms           Overload relay         percental drop-out voltage rated value of F-delay line         10 24 ms           Overload relay         product function         Yes           opproved function         Yes         Yes           reset function         Manual, automatic and remote         10 40 A           dependent covide release         CLASS 5 / 10 (factory set) / 20 / 30         10 40 A           dependent covide relaxes         3 s         1         1           relative regard accuracy         1 %         Yes         1           product feature protection at AC rated of value         5 A         1         1		
of magnet cai       50 %         input voltage       50 %         ON-delay time       10 24 ms         Overload relay       10 24 ms         overload protection       Yes         • approxed filled detection       Yes         • approxed filled detection       Yes         • approxed filled detection       Yes         • aground fault detection       Yes         • external reset       10 40 A         tripp ligt mei aphase-loss maximum       3 s         relative repeat accuracy       1%         product feature protective casting on printed-ricit/bard       Yes         • at Co catasts of auxiliary contacts of overload relay       1         relative repeat accuracy       1         product feature protective casting on printed-ricit/bard       1         operational current daxiliary contacts of overload relay       1         relative       relative       S A/@600VAC (B600), 1A@250VDC (R300)		
input voltage         929 ms           ON-delay time         1024 ms           Overload ratay         9           product function         Yes           • overload protection         Yes           • ground failur detection         Yes           • ground failur detection         Yes           • ground failur detection         Yes           • external reset         Yes           • product faiture protective coaling on printer-forunt board         1040 A           fulping time at phase-loss maximum         3 s           relative repeat accuracy         Yes           product faiture protective coaling on printer-forunt board         1           operational current of auxiliary contacts of overload relay         5 A           • at DC at 250 V         1A           contact rating of auxiliary contacts of overload relay         5A@600VAC (B600), 1A@250VDC (R300)           • at DC at 250 V         1A           operational current of multip-phase operation at AC rated value         600 V           • with mul		
OFF-delay time     10 24 ms       Overload ratay     Product function       • overload protocolon     Yes       • asymmetry detection     Yes       • asymmetry detection     Yes       • asymmetry detection     Yes       • external reset     Yes       • product failure detective coating on printed-circuit bacad     10 40 A       relay     number of NC contacts of auxiliary contacts of overload     1       • ext DC at 250 V     5 A       • ext DC at 250 V     5 A       • ext DC at 250 V     5 A       • with single-phase operation at AC rated value     600 V       • with single-phase operation at AC rated value     500 V       • extored of the noising     Weather proof to outdoor use       Standard Control Devices     Product component Haind-OH-Auto selector switch		50 %
Overload relay         Yes           product function         Yes           • overload protection         Yes           • asymmetry detection         Yes           • aground fault detection         Yes           • aground fault detection         Yes           • external reset         Yes           • external reset         Yes           adjustable current response value current of the current- dependent overload release         10 40 A           Trippet fast acuracy         13%           product feature protective coating on printed-circuit board         1           relay         relay         13%           product feature protective coating on printed-circuit board         1           relay         1 as         1           operational current of auxiliary contacts of overload relay         5 A           • at DC at 250 V         5 A           • at DC at 250 V         5 A           • with multi-phase operation at AC rated value         900 V           • with multi-phase operation at AC rated value         900 V           • with multi-phase operation at AC rated value         900 V           • with multi-phase operation at AC rated value         900 V           Standard Control Devices         900 V           produc	ON-delay time	19 29 ms
product function         Yes           • overload protection         Yes           • approxe failure detection         Yes           • exprimetry detection         Yes           • external reset         Yes           • reset function         3 s           rightspace         1%           product feature protective coaling on printed-circuit board         1           number of NC contacts of auxiliary contacts of overload relay         1           operational current of suxiliary contacts of overload relay         5 A           • ext AC at 500 V         5 A           • ext AC at 500 V         5 A           • ext AC at 500 V         5 A           ewith multit-phase operation	OFF-delay time	10 24 ms
everload protection     ephase failure detection     esymmetry detection     esymmetry detection     esternal reset     esternal reset     esternal reset     esternal reset     Yes     external reset     insultary contacts of overload     trelay     external reset     insultary contacts of overload     trelay     external reset     insultary contacts of overload relay     according to U     insultany contacts of overload relay     according to U     insultany contacts of overload relay     according to U     insultary contacts of overload relay     according to U     insultany contacts of overload relay     according to U     insultany contacts of overload     insultary contacts     overload relay     according to U     insultany contacts of overload     insultary contacts     overload relay     according to U     insultary contacts     overload relay     according to U     insultary contacts     overload relay     according to U     insultary con	Overload relay	
Phase failure detection     Yes     eground fault detection     Yes     eground fault detection     Yes     eground fault detection     Yes     est function     Yes     est function     Yes     reset function     Manual, automatic and remote     Yes     reset function     Yes     reset function     Manual, automatic and remote     (LASS 5 / 10 (factory set) / 20 / 30     (LAS 5 / 10 (factory set) /	product function	
e saymetry detection         yes         eryound fault detection         Yes         esternal reset         external reset         ves         external reset         Yes         adjustable current response value current of the current-         dependent overload releave         adjustable current response value current of the current-         dependent overload releave         at under the advented releave         rumber of NC contacts of auxiliary contacts of overload         releave         releave repeat accuracy         1 %         product feature protective coating on printed-dircuit board         Yes         rumber of NC contacts of overload releave         eit AC at 600 V         at DC at 250 V         fall         contact rating of auxiliary contacts of overload relay         according to UL         insultainy contacts of overload         insultainy contacts         overload         insultainy contacts         overload         insultactore         insultainy contacts	<ul> <li>overload protection</li> </ul>	Yes
	<ul> <li>phase failure detection</li> </ul>	Yes
	<ul> <li>asymmetry detection</li> </ul>	Yes
• external reset       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 releases       10 40 A         tripping time at phase-loss maximum       3 s         relative repeat accuracy       1%         product feature protective coating on printed-circuit board       1         number of NC contacts of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay       1         • ett AC at 600 V       5 A         • ett AC at 800 V       5 A	<ul> <li>ground fault detection</li> </ul>	Yes
reset function         Manual, automatic and remote           trip class         CLASS 5 / 10 (factory set) / 20 / 30           adjustable current response value current of the current         10 40 A           dependent overload release         10 40 A           tripping time at phase-loss maximum         3 s           relative repeat accuracy         1 %           product feature protective coating on printed-circuit board         1           number of NC contacts of auxiliary contacts of overload         1           relay         1 A           operational current of auxiliary contacts of overload relay         5 A           et at DC at 250 V         1 A           contact rating of auxiliary contacts of overload relay         5 A           exactring to U.         5 A           insulation voltage (Ui)         600 V           ewith multi-phase operation at AC rated value         600 V           elarge of protection NEMA rating of the enclosure         NEMA Type 3R           design of the housing         Weatther proof for outdoor use           Standard Control Devices         Yes           product component Hand-Off-Auto selector switch         Yes           type of the motor protection         Motor circuit protector (magnetic trip only)           operational current of motor circuit breaker r	test function	Yes
trip class         CLASS 5 / 10 (factory set) / 20 / 30           adjustable current response value current of the current- dependent vertodad release         10 40 A           tripping time at phase-loss maximum         3 s           relative repeat accuracy         1 %           product feature protective coating on printed-circuit board         1 %           number of NC contacts of auxiliary contacts of overload         1           number of NC 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         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 single-phase operation at AC rated value         600 V           • with single-phase operation at AC rated value         600 V           • with single-phase operation at AC rated value         600 V           • with single-phase operation at AC rated value         600 V           • with single opheration at AC rated value         600 V           • with single opheration at AC rated value         600 V           • product component Hand-Off-Auto selector switch         Yes <td>external reset</td> <td></td>	external reset	
adjustable current response value current of the current- dependent overhoad release       10 40 A         thoping time at phase-loss maximum       3 s         relative repeat accuracy       1 %         product feature protective coating on printed-circuit board relay       1 %         number of NC contacts of auxiliary contacts of overload       1         operational current of auxiliary contacts of overload relay       5 Å         • at AC at 600 V       1 Å         orearing of auxiliary contacts of overload relay according to UL       5 Å         insulation voltage (Ui)       600 V         • with single-phase operation at AC rated value       600 V         300 V       Enclosure         degree of protection NEMA rating of the enclosure       NEMA Type 3R         gride of the housing       Weather proof for outdoor use         Standard Control Devices       90mm metal housing with matte finish         product component Hand-Off-Auto selector switch       Yes         type of the motor protection       Motor circuit protector (magnetic trip only)         operation       30mm metal housing with matte finish         Circuit Breaker       Surface mounting and installation         type of the motor protection       Motor circuit protector (magnetic trip only)         operating method       Surface mounting and installatio	reset function	Manual, automatic and remote
dependent overload release       3 s         tripping time at phase-loss maximum       3 s         product feature pretective coating on printed-circuit board       Yes         number of NC contacts of auxiliary contacts of overload       1         relative repeat accuracy       1         number of NC contacts of auxiliary contacts of overload       1         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 UL       5A@600VAC (B600), 1A@250VDC (R300) according to UL         insulation voltage (U)       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       NEMA Type 3R         design of the housing       Weather proof for outdoor use         Standard Control Devices       Yes         product component Hand-Off-Auto selector switch       Yes         type of the motor protection       Motor circuit protector (magnetic trip only)         operator       Jomm metal housing with matte finish         type of the motor protection       Motor circuit protector (magnetic trip only)         operator       Jomm metal housing with matte fi	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       1         relay       1         operational current of auxiliary contacts of overload       1         operational current of auxiliary contacts of overload relay       5 Å         eat DC at 250 V       1 Å         contact rating of auxiliary contacts of overload relay       5 Å@@600VAC (B600), 1A@250VDC (R300)         according to UL       Insulation voltage (UI)       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       NEMA Type 3R         design of the housing       Weather proof for outdoor use         Standard Control Devices       Yes         product component start push button       Yes         type of Hand-Off-Auto selector switch       Yes         type of start push button       30mm metal housing with matte finish         Operational current of motor circuit breaker rated value       40 A         adjustable current response value current of instantaeous short-circuit trip unit       40 A         Mounting/Wring       Vertical         mounting position       Vertical <td>, , ,</td> <td>10 40 A</td>	, , ,	10 40 A
product feature protective coating on printed-circuit board         Yes           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           operational current of auxiliary contacts of overload relay ext AC at 600 V         5 A           • at DC at 250 V         1 A           contact rating of auxiliary contacts of overload relay according to UL         5 A           insulation voltage (U)         600 V           • with multi-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value         600 V           elegree 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           ype of Hand-Off-Auto selector switch         30mm metal housing with matte finish           product component start push button         Yes           type of I the motor protection         Motor circuit protector (magnetic trip only)           operational current of motor circuit breaker rated value         40 A           adjustable current response value current of instantaneous short-circuit trip unit         Surface mounting	tripping time at phase-loss maximum	3 s
number of NC contacts of auxiliary contacts of overload relay       1         number of NC contacts of auxiliary contacts of overload relay       1         operational current of auxiliary contacts of overload relay at AC at 600 V       5 A         • at DC at 250 V       1 A         contact rating of auxiliary contacts of overload relay according to UL       5 A         insulation voltage (Ui)       • with single-phase operation at AC rated value       600 V         • with single-phase operation at AC rated value       300 V         Enclosure       Veather proof for outdoor use         Standard Control Devices       Product component Hand-Off-Auto selector switch         product component start push button       Yes         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       40 A         adjustable current of motor circuit breaker rated value       40 A         mounting/wiring       Motor circuit protector (magnetic trip only)         operational current of or outic or servert of instantaneous short-circuit threaker rated value       40 A         instantaneous short-circuit threaker at value       40 A         fastening method       Surface mounting and installation         type of start push button       Surface mounting and installation         type of el		1 %
relay       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 UL       5A@600VAC (B600), 1A@250VDC (R300)         insulation voltage (Ui)       600 V         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       Meather 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 the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       40 A         adjustable current esponse value current of instantaneous short-circuit breaker rated value       40 A         muting/wiring       Vertical         mounting position       Vertical         fastering method       Surface mounting and installation         type of electrical connection for supply voltage ine-side       Box lug         tof Carbover of the conductor for supply maximum permissible       75 °C		Yes
relay         operational current of auxiliary contacts of overload relay         a t AC at 600 V         a t DC at 250 V         1 A         contact rating of auxiliary contacts of overload relay         according to UL         insulation voltage (Ui)         • 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         degree of protection NEMA rating of the enclosure         design of the housing         Weather proof for outdoor use         Standard Control Devices         product component Hand-Off-Auto selector switch         10 product component Hand-Off-Auto selector switch         9 of the motor protection         Ype of Hand-Off-Auto selector switch         9 of the motor protection         0 operational current of motor circuit breaker rated value         40 A         adjustable current response value current of instantaneous short-circuit trip unit         Mounting voiting         Mounting voiting         Vertical         fastening method         type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded		1
• at AC at 600 V       5 A         • 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 (Ui)       • 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       300 V         Enclosure       MEMA Type 3R         design of the housing       Weather proof for outdoor use         Standard Control Devices       Product component Hand-Off-Auto selector switch         ype of Hand-Off-Auto selector switch       30mm metal housing with matte finish         product component start push button       Yes         type of Hand-Off-Auto selector switch       30mm metal housing with matte finish         chrouit Broaker       40 A         adjustable current of motor circuit breaker rated value       40 A         adjustable current response value current of instantaneous short-circuit trip unit       115 375 A         Mounting/wiring       mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side at AWG cables single or multi-s		1
• at DC at 250 V     1 Å       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 multi-phase operation at AC rated value     300 V       Enclosure     Weather proof for outdoor use       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       type of the motor protection     Motor circuit protector (magnetic trip only)       operational current of motor circuit breaker rated value     40 A       adjustable current of motor circuit breaker rated value     40 A       adjustable current of motor circuit breaker rated value     40 A       adjustable current of motor circuit breaker rated value     40 A       mounting position     Vertical       fastening method     Surface mounting and installation       type of electrical connection for supply voltage line-side     fax (10 AWG 1/0 AWG)       instantaneous short-circuit trip unit     File       mounting position     Vertical       fastening method <td>operational current of auxiliary contacts of overload relay</td> <td></td>	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 (Ui)         600 V           • with single-phase operation at AC rated value         600 V           • with multi-phase operation at AC rated value         600 V           geree 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         Yes           type of the motor protection         Motor circuit protector (magnetic trip only)           operational current of motor circuit breaker rated value         40 A           adjustable current response value current of instantaneous short-circuit trip unit         115 375 A           Mounting/wiring         mounting position         Vertical           fastening method         Surface mounting and installation           type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded         1x (10 AWG 1/0 AWG)           tasterial of the conductor for supply maximum permissible         75 °C	• at AC at 600 V	5 A
according to UL       insulation voltage (Ui)         • with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       MEMA 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         ype of Hand-Off-Auto selector switch       Yes         type of start push button       Yes         type of start push button       Yes         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       40 A         adjustable current response value current of instantaneous short-circuit trip unit       115 375 A         Mounting/wiring       Surface mounting and installation         mounting position       Vertical         fastening method       Surface mounting and installation         type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded       1x (10 AWG 1/0 AWG)         at were of the conductor for supply maximum permissible       75 °C	• at DC at 250 V	1 A
• with single-phase operation at AC rated value       600 V         • with multi-phase operation at AC rated value       300 V         Enclosure       00 V         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         ype of Hand-Off-Auto selector switch       Yes         type of start push button       Yes         type of start push button       Yes         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       40 A         adjustable current response value current of instantaneous short-circuit trip unit       115 375 A         Mounting/wiring       mounting position       Vertical         fastening method       Surface mounting and installation         type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded       1x (10 AWG 1/0 AWG)         ta AWG cables single or multi-stranded       75 °C         material of the conductor for supply       AL or CU		5A@600VAC (B600), 1A@250VDC (R300)
• with multi-phase operation at AC rated value       300 V         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 start push button       Yes       Yes         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       40 A         adjustable current response value current of instantaneous short-circuit trip unit       115 375 A         mounting position       Vertical         fastening method       Surface mounting and installation         type of connectable conductor for supply voltage line-side       11 (10 AWG)         at AWG cables single or multi-stranded       11 x (10 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       AL or CU	insulation voltage (Ui)	
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       Yes         product component start push button       Yes       Yes         type of start push button       Yes       Yes         type of the motor protection       Motor circuit protector (magnetic trip only)       Operational current of motor circuit breaker rated value         do A       40 A       115 375 A       Instantaneous short-circuit trip unit         Mounting/wiring       mounting position       Vertical       Surface mounting and installation         type of connectable conductor for supply voltage line-side       Box lug       1x (10 AWG 1/0 AWG)       1x (10 AWG 1/0 AWG)         at AWG cables single or multi-stranded       75 °C       material of the conductor for supply maximum       75 °C         material of the conductor for supply       AL or CU       AL or CU       XL or CU	<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
degree of protection NEMA rating of the enclosureNEMA Type 3Rdesign of the housingWeather proof for outdoor useStandard Control Devicesproduct component Hand-Off-Auto selector switchYestype of Hand-Off-Auto selector switchYestype of start push buttonYestype of start push buttonYestype of the motor protectionMotor circuit protector (magnetic trip only)operational current of motor circuit breaker rated value40 Aadjustable current response value current of instantaneous short-circuit trip unit115 375 AMounting/wiringVerticalmounting positionVerticaltype of electrical connection for supply voltage line-sideBox lugtype of the conductor for supply maximum permissible1x (10 AWG) 1/0 AWG)dat adiustal of the conductor for supplyAL or CU	<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V
design of the housingWeather proof for outdoor useStandard Control Devicesproduct component Hand-Off-Auto selector switchYestype of Hand-Off-Auto selector switch30mm metal housing with matte finishproduct component start push buttonYestype of start push buttonYestype of start push button30mm metal housing with matte finishCircuit Breaker100mm metal housing with matte finishtype of the motor protectionMotor circuit protector (magnetic trip only)operational current of motor circuit breaker rated value40 Aadjustable current response value current of instantaneous short-circuit trip unit115 375 AMounting/wiringmounting positionVerticalfastening methodSurface mounting and installationtype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)taterial of the conductor for supplyAL or CU	Enclosure	
Standard Control Devicesproduct 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 finishCircuit Breaker40 Atype of the motor protectionMotor circuit protector (magnetic trip only)operational current of motor circuit breaker rated value40 Aadjustable current response value current of instantaneous short-circuit trip unit115 375 AMounting/wiringmounting positionVerticaltype of electrical connection for supply voltage line-side at AWG cables single or multi-strandedBox lugtype of the conductor for supply maximum permissible1x (10 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CU	degree of protection NEMA rating of the enclosure	NEMA Type 3R
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 finishCircuit Breakertype of the motor protectionMotor circuit protector (magnetic trip only)operational current of motor circuit breaker rated value40 Aadjustable current response value current of instantaneous short-circuit trip unit115 375 AMounting/wiringVerticalmounting positionVerticaltype of electrical connection for supply voltage line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CU	design of the housing	Weather proof for outdoor use
type of Hand-Off-Auto selector switch30mm metal housing with matte finishproduct component start push buttonYestype of start push button30mm metal housing with matte finishCircuit Breakertype of the motor protectionMotor circuit protector (magnetic trip only)operational current of motor circuit breaker rated value40 Aadjustable current response value current of instantaneous short-circuit trip unit115 375 AMounting/wiringVerticalmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CU	Standard Control Devices	
product component start push button       Yes         type of start push button       30mm metal housing with matte finish <b>Circuit Breaker</b> type of the motor protection         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       40 A         adjustable current response value current of instantaneous short-circuit trip unit       115 375 A <b>Mounting/wiring</b> mounting position         vertical       Surface mounting and installation         type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded       1x (10 AWG 1/0 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       AL or CU	product component Hand-Off-Auto selector switch	Yes
product component start push buttonYestype of start push button30mm metal housing with matte finishCircuit BreakerMotor circuit protector (magnetic trip only)operational current of motor circuit breaker rated value40 Aadjustable current response value current of instantaneous short-circuit trip unit115 375 AMounting/wiringVerticalmounting positionVerticalfastening methodSurface mounting and installationtype of connection for supply voltage line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible material of the conductor for supplyAL or CU	type of Hand-Off-Auto selector switch	30mm metal housing with matte finish
type of start push button30mm metal housing with matte finishCircuit Breakertype of the motor protectionMotor circuit protector (magnetic trip only)operational current of motor circuit breaker rated value40 Aadjustable current response value current of instantaneous short-circuit trip unit115 375 AMounting/wiringVerticalmounting positionVerticalfastening methodSurface mounting and installationtype of connectable conductor for supply voltage line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CU	product component start push button	
Circuit Breaker         type of the motor protection       Motor circuit protector (magnetic trip only)         operational current of motor circuit breaker rated value       40 A         adjustable current response value current of instantaneous short-circuit trip unit       115 375 A         Mounting/wiring       Vertical         mounting position       Vertical         fastening method       Surface mounting and installation         type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded       1x (10 AWG 1/0 AWG)         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       AL or CU		30mm metal housing with matte finish
type of the motor protectionMotor circuit protector (magnetic trip only)operational current of motor circuit breaker rated value40 Aadjustable current response value current of instantaneous short-circuit trip unit115 375 AMounting/wiringmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CU	Circuit Breaker	
operational current of motor circuit breaker rated value40 Aadjustable current response value current of instantaneous short-circuit trip unit115 375 AMounting/wiringVerticalmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CU		Motor circuit protector (magnetic trip only)
adjustable current response value current of instantaneous short-circuit trip unit115 375 AMounting/wiringVerticalmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-side at AWG cables single or multi-strandedBox lug1x (10 AWG 1/0 AWG)1x (10 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CU		
Mounting/wiringmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CU	adjustable current response value current of	
mounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CU	- -	
fastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideBox lugtype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CU		Vertical
type of electrical connection for supply voltage line-sideBox lugtype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CU		
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (10 AWG 1/0 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CU		
at AWG cables single or multi-stranded     ************************************		
permissible       material of the conductor for supply       AL or CU		(
		75 °C
type of electrical connection for load-side outgoing feeder Screw-type terminals	material of the conductor for supply	AL or CU
	type of electrical connection for load-side outgoing feeder	Screw-type terminals

tightening torque [lbf·in] for load-side outgoing feeder	45 45 lbf·in	
type of connectable conductor cross-sections at AWG	1x (14 2 AWG)	
cables for load-side outgoing feeder single or multi- stranded		
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	
tightening torque [lbf·in] at magnet coil	5 12 lbf·in	
type of connectable conductor cross-sections of magnet coil at 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 at 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 at 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 short-circuit trip	Instantaneous trip circuit breaker	
breaking capacity maximum short-circuit current (Icu)		
• at 240 V	100 kA	
• at 480 V	100 kA	
• at 600 V	25 kA	
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=US2:87EUE6MA Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:87EUE6MA		
	s. 3D models, device circuit diagrams, EPLAN macros,)	

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:87EUE6MA&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:87EUE6MA/certificate



last modified:

1/8/2022 🖸