## **SIEMENS**

## Data sheet

## US2:17CUA82XG10

Non-reversing motor starter Size 0 Three phase full voltage Solidstate overload relay OLRelay amp range 0.25-1A Combination type 30Amp fusible disconnect 30Amp / 250V fuse clip Encl NEMA type 4X 316 S-steel Water/dust tight non-corrosive Extra-wide enclosure



Figure similar

General technical data	
Weight [lb]	48 lb
Height x Width x Depth [in]	24 × 20 × 8 in
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
Ambient temperature [°F] during operation	-4 +104 °F
Ambient temperature during storage	-30 +65 °C
Ambient temperature during operation	-20 +40 °C
Country of origin	USA
Horsepower ratings	
Yielded mechanical performance [hp] for three-phase	
AC motor	
• at 200/208 V rated value	0.17 hp
• at 220/230 V rated value	0.17 hp
• at 460/480 V rated value	0 hp

• at 575/600 V rated value

0 hp

• at 575/600 V rated value	0 hp
Contactor	
Number of NO contacts for main contacts	3
Operating voltage for main current circuit at AC at 60 Hz maximum	600 V
Operating current at AC at 600 V rated value	18 A
Mechanical service life (switching cycles) of the main	1000000
contacts typical	
Auxiliary contact	
Number of NC contacts at contactor for auxiliary	0
contacts	
Number of NO contacts at contactor for auxiliary	1
contacts	
Number of total auxiliary contacts maximum	8
Contact rating of auxiliary contacts of contactor	10A@600VAC (A600), 5A@600VDC (P600)
according to UL	
Coil	
Type of voltage of the control supply voltage	AC
Control supply voltage	
• at DC rated value	0 0 V
• at AC at 60 Hz rated value	220 240 V
• at AC at 50 Hz rated value	190 220 V
Holding power at AC minimum	8.6 W
Apparent pick-up power of magnet coil at AC	218 V·A
Apparent holding power of magnet coil at AC	25 V·A
Operating range factor control supply voltage rated value of magnet coil	0.85 1.1
Percental drop-out voltage of magnet coil related to the input voltage	50 %
Switch-on delay time	19 29 ms
Off-delay time	10 24 ms
Overload relay	
Product function	
Overload protection	Yes
Phase failure detection	Yes
Phase unbalance	Yes
<ul> <li>Ground fault detection</li> </ul>	Yes
Test function	Yes
External reset	Yes
Reset function	Manual, automatic and remote
(trip class)	Class 5 / 10 / 20 (factory set) / 30
v 1 · · · · · /	

Adjustable pick-up value current of the current- dependent overload release	0.25 1 A
Trip 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
Number of NO contacts of auxiliary contacts of overload relay	1
Operating 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	5A@600VAC (B600), 1A@250VDC (R300)
Insulation voltage	
<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
<ul> <li>with multi-phase operation at AC rated value</li> </ul>	300 V
Disconnect Switch	
Rated response values of switch disconnector	30A / 250V
Design of fuse holder	Class R fuse clips
Operating class of the fuse link	Class R
Enclosure	
Degree of protection NEMA rating of the enclosure	NEMA 4X 316 stainless steel enclosure
Design of the housing	Dust-tight, watertight & corrosion resistant
Mounting/wiring	
(mounting position)	vertical
(mounting type)	Surface mounting and installation
Type of electrical connection for supply voltage line- side	Box lug
Tightening torque [lbf-in] for supply	35 35 lbf·in
Type of connectable conductor cross-sections at line- side at AWG conductors single or multi-stranded	1x (14 2 AWG)
Temperature of the conductor for supply maximum permissible	75 °C
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	20 24 lbf·in
Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded	2x (14 10 AWG)

Temperature of the conductor for load-side outgoing       75 °C         Material of the conductor for load-side outgoing       CU         Feeder       CU         Type of onnection of magnet coil       Screw-type terminals         Tightening torque [lib/in] at magnet coil       5 12 lb/in         Type of connectable conductor cross-sections of       2x (16 12 AWG)         maximum parmissible       75 °C         Material of the conductor at magnet coil       CU         Type of onnectable conductor at magnet coil       CU         Type of onnectable conductor at magnet coil       CU         Type of onnectable conductor at magnet coil       CU         Type of connectable conductor for auxiliary contacts       Screw-type terminals         Type of connectable conductor for auxiliary contacts       10 15 lb/in         Cultariant of the conductor at contactor for auxiliary contacts       75 °C         auxiliary contacts       CU         Cultary contacts       CU         Cultary contacts       10 16 lb/in         Type of electrical connection at overload relay for auxiliary contacts       Screw-type terminals         auxiliary contacts       CU         Cultary contacts       Screw-type terminals         Type of connectable conductor at contactor for auxiliary contacts       Screw			
feeder       Screw-type terminals         Type of electrical connection of magnet coil       Screw-type terminals         Type of connectable conductor cross-sections of magnet coil at AWG conductors single or multi-stranded       2x (16 12 AWG)         Temperature of the conductor at magnet coil       75 °C         Material of the conductor for auxiliary contacts       Screw-type terminals         Tightening torque [lbfin] at contactor for auxiliary contacts       Screw-type terminals         Type of electrical connection for auxiliary contacts       Screw-type terminals         Type of connectable conductor at onautiliary contacts       Screw-type terminals         Ontactor at AWG conductors for auxiliary contacts       10 15 lbfin         Contactable conductor at contactor for auxiliary contacts       12 °C         Single or multi-stranded       75 °C         Type of electrical connection at overload relay for auxiliary contacts       12 °C         Single or multi-stranded       75 °C         Type of electrical connection at overload relay for auxiliary contacts       25 °C         Type of onenctable conductor at contactor for auxiliary contacts       25 °C         Type of onenctable conductor at overload relay for auxiliary contacts       75 °C         Type of onenctable conductor at overload relay for auxiliary contacts       22 (20		75 °C	
Tightening torque [lbfin] at magnet coil       5 12 lbfin         Type of connectable conductor cross-sections of magnet coil at AWG conductors 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 Type of electrical connection for auxiliary contacts       CU         Type of connectable conductor for auxiliary contacts       Screw-type terminals         Tightening torque [lbfin] at contactor for auxiliary contacts       10 15 lbfin         Type of connectable conductor at contactor for auxiliary contacts       12 (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)         Type of connectable conductor for auxiliary contacts       75 °C         Type of electrical connection at contactor for auxiliary contacts       75 °C         Type of electrical connection at contactor for auxiliary contacts       75 °C         Type of electrical connection at overload relay for auxiliary contacts       7 10 lbfin         Type of electrical connection at overload relay for auxiliary contacts       7 10 lbfin         Type of multi-stranded       75 °C         Type of onnectable conductor at overload relay for auxiliary contacts       2x (20 14 AWG)         Type of electrical connection at overload relay for auxiliary contacts       75 °C         Type of connectable conductor at overload relay for auxiliary contacts       75 °C		CU	
Type of connectable conductor cross-sections of magnet coil at AWG conductors 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 rype of electrical connection for auxiliary contacts       Screw-type terminals         Tightening torque [lbf-in] at contactor for auxiliary contacts       10 15 lbf-in         Type of connectable conductor at conscion for auxiliary contacts       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       75 °C         Type of electrical connection at overload relay for auxiliary contacts       75 °C         Auxiliary contacts       75 °C         Type of connectable conductor at contactor for auxiliary contacts       75 °C         Type of connectable conductor at contactor for auxiliary contacts       75 °C         Type of connectable conductor at overload relay for auxiliary contacts       2x (20 14 AWG)         Type of connectable conductor at overload relay for auxiliary contacts maximum permissible       2x (20 14 AWG)         Material of the conductor at overload relay for auxiliary contacts maximum permissible       2x (20 14 AWG)         Material of the conductor at overload relay for auxiliary contacts       2x (20 14 AWG) <td>pe of electrical connection of magnet coil</td> <td>Screw-type terminals</td>	pe of electrical connection of magnet coil	Screw-type terminals	
magnet coil at AWG conductors single or multi- stranded       75 °C         Temperature of the conductor at magnet coil maximum permissible       75 °C         Material of the conductor at magnet coil       CU         Type of electrical connection 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 conductors for auxiliary contacts       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         Type of connectable conductor at overload relay for auxiliary contacts       Y 10 lbf in         Type of connectable conductor at overload relay for auxiliary contacts       Y 10 lbf in         Type of connectable conductor at overload relay for auxiliary contacts       Y 10 lbf in         Temperature of the conductor at overload relay for auxiliary contacts       Y 10 lbf in         Type of connectable conductor for auxiliary contacts any or multi-stranded       To °C         Temperature of the conductor at overload relay for auxiliary contacts       Y 10 lbf in         Temperature of the conductor at overload r	ghtening torque [lbf·in] at magnet coil	5 12 lbf·in	
maximum permissible       CU         Material of the conductor at magnet coil       CU         Type of electrical connection for auxiliary contacts       Screw-type terminals         Tightening torque [lbf:n] at contactor for auxiliary contacts       10 15 lbf:in         Type of connectable conductor cross-sections at contactor for auxiliary contacts       1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)         Torpe of connectable 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         Type of electrical connection at overload relay for auxiliary contacts       Screw-type terminals         Type of electrical connection at overload relay for auxiliary contacts       Screw-type terminals         Type of electrical connection at overload relay for auxiliary contacts       Screw-type terminals         Type of electrical connection at overload relay for auxiliary contacts       Screw-type terminals         Type of electrical connectable conductor ross-sections at overload relay for auxiliary contacts       Screw-type terminals         Type of electrical conductor st overload relay for auxiliary contacts       Screw-type terminals         Type of electrical conductor ross-sections at overload relay for auxiliary contacts       Screw-type terminals	agnet coil at AWG conductors single or multi-	2x (16 12 AWG)	
Type of electrical connection 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 conductors for auxiliary contacts       1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)         Temperature of the conductor at contactor for auxiliary contacts       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         Type of connectable conductor s for auxiliary contacts       7 10 lbf in         Type of connectable conductor s for auxiliary contacts       Screw-type terminals         Type of connectable conductor s for auxiliary contacts       7 10 lbf in         Type of connectable conductor s for auxiliary contacts       7 10 lbf in         Type of the conductor at overload relay for auxiliary contacts       7 10 lbf in         Type of the conductor at overload relay for auxiliary contacts       75 °C         Temperature of the conductor at overload relay for auxiliary contacts       75 °C         Temperature of the conductor at overload relay for auxiliary contacts       75 °C         Short-circuit current rating       CU         Design of the fuse link for short-circuit protection of the main circuit required       10kA@600V (Class H or K); 100		75 °C	
Tightening torque [lbf-in] at contactor for auxiliary contacts       10 15 lbf-in         Type of connectable conductor cross-sections at contactor at AWG conductors 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         Type of connectable conductor rorss-sections at overload relay for auxiliary contacts       7 10 lbf-in         Type of connectable conductor sof areauxiliary contacts       2x (20 14 AWG)         Type of connectable conductor at overload relay for auxiliary contacts ingle or multi-stranded       75 °C         Type of connectable conductor at overload relay for auxiliary contacts maximum permissible       2x (20 14 AWG)         Material of the conductor at overload relay for auxiliary contacts       2x (20 14 AWG)         Temperature of the conductor at overload relay for auxiliary contacts       75 °C         Short-circuit current rating       2x (20 14 AWG)         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)         Industry Mall (Online ordering system)       10kst@Mall (Online ordering system)         Industry Mall (Onl	aterial of the conductor at magnet coil	CU	
contacts       Ix (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)         Type of connectable conductor cross-sections at contactor at AWG conductors for auxiliary contacts single or multi-stranded       75 °C         Temperature of the conductor at contactor for auxiliary contacts       75 °C         Material of the conductor at contactor for auxiliary contacts       CU         contacts       Screw-type terminals         auxiliary contacts       7 10 lbf-in         Type of electrical connection at overload relay for auxiliary contacts       7 10 lbf-in         Type of connectable conductor at overload relay for auxiliary contacts       2x (20 14 AWG)         Type of connectable conductor at overload relay for auxiliary contacts maximum permissible       75 °C         Type of connectable conductor cross-sections at overload relay for auxiliary contacts single or multi-stranded       2x (20 14 AWG)         Temperature of the conductor at overload relay for auxiliary contacts maximum permissible       CU         Material of the conductor at overload relay for auxiliary contacts       2x (20 14 AWG)         Short-circuit current rating       CU         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)         the main circuit required       Industry all (Online ordering system)         Industry Mall (Online ordering system)       Industry Mall (Online o	pe of electrical connection for auxiliary contacts	Screw-type terminals	
contactor at AWG conductors for auxiliary contacts       75 °C         ingle or multi-stranded       75 °C         Material of the conductor at contactor for auxiliary contacts       CU         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 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 maximum permissible       2x (20 14 AWG)         Material of the conductor at overload relay for auxiliary contacts       75 °C         CU       CU       CU         Short-circuit current rating       CU         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)         Further information       Industry Mall (Online ordering system)         Industry Mall (Online ordering system)       Industry Mall (Online ordering system)         https://mall.industry.siemens.com/mall/en/us/Catalog/product?mifb=US2:17CUA82XG10       CU		10 15 lbf·in	
auxiliary contacts maximum permissible       CU         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 auxiliary contacts single or multi-stranded       7 10 lbf-in         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       CU         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)         Turther information       Industry Mall (Online ordering system)         Industry Mall (Online ordering system)       https://mall.industry.siemens.com/mall/en/us/Catalog/product?mtb=US2:17CUA82XG10	ntactor at AWG conductors for auxiliary contacts	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	
contactsScrew-type terminalsType of electrical connection at overload relay for auxiliary contactsScrew-type terminalsTightening torque [lbf in] at overload relay for auxiliary contacts7 10 lbf inType of connectable conductor cross-sections at overload relay at AWG conductors for auxiliary contact single or multi-stranded2x (20 14 AWG)Temperature of the conductor at overload relay for auxiliary contacts75 °CMaterial of the conductor at overload relay for auxiliary contactsCUShort-circuit current ratingCUDesign of the fuse link for short-circuit protection of the main circuit required10kA@600V (Class H or K); 100kA@600V (Class R or J)Further informationIndustrial Controls - Product Overview (Catalogs, Broch-s) www.usa.siemens.com/iccatalogIndustrial Controls - Product Overview (Catalogs, Broch-s) types//mall.industry.siemens.com/mall/en/us/Catalog/product?mtb=US2:17CUA82XG10	•	75 °C	
auxiliary contacts       7         Tightening torque [lbf·in] at overload relay for auxiliary contacts       7         Type of connectable conductor cross-sections at overload relay at AWG conductors for auxiliary contacts single or multi-stranded       2x (20 14 AWG)         Temperature of the conductor at overload relay for auxiliary contacts       75 °C         Material of the conductor at overload relay for auxiliary contacts       75 °C         Short-circuit current rating       CU         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)         Further information       Industrial Controls - Product Overview (Catalogs, Brochures,) www.usa.siemens.com/ficcatalog         Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:17CUA82XG10	-	CU	
auxiliary contacts Type of connectable conductor cross-sections at overload relay at AWG conductors for auxiliary contacts single or multi-stranded Temperature of the conductor at overload relay for auxiliary contacts maximum permissible Material of the conductor at overload relay for auxiliary contacts Short-circuit current rating Design of the fuse link for short-circuit protection of the main circuit required Temperature of 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=US2:17CUA82XG10	-	Screw-type terminals	
overload relay at AWG conductors for auxiliary contacts single or multi-stranded Temperature of the conductor at overload relay for auxiliary contacts maximum permissible Material of the conductor at overload relay for auxiliary contacts CU CU Short-circuit current rating Design of the fuse link for short-circuit protection of the main circuit required Teurther 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=US2:17CUA82XG10		7 10 lbf∙in	
auxiliary contacts maximum permissible       CU         Material of the conductor at overload relay for auxiliary contacts       CU         Short-circuit current rating       CU         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)         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=US2:17CUA82XG10	verload relay at AWG conductors for auxiliary	2x (20 14 AWG)	
auxiliary contacts Short-circuit current rating Design of the fuse link for short-circuit protection of the main circuit required 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=US2:17CUA82XG10		75 °C	
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)         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=US2:17CUA82XG10	-	CU	
the main circuit required 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=US2:17CUA82XG10	brt-circuit current rating		
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=US2:17CUA82XG10	-	10kA@600V (Class H or K); 100kA@600V (Class R or J)	
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=US2:17CUA82XG10	ther information		
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:17CUA82XG10	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=US2:17CUA82XG10			
Service&Support (Manuals, Certificates, Characteristics, FAQs,)			
https://support.industry.siemens.com/cs/US/en/ps/US2:17CUA82XG10			
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17CUA82XG10⟨=en			
Certificates/approvals			
https://support.industry.siemens.com/cs/US/en/ps/US2:17CUA82XG10/certificate	ertificates/approvals	00/(040)	





D68782001

last modified:

05/08/2019