## SIEMENS

## Data sheet

## US2:14GP120A81



Non-reversing motor starter, Size 2 1/2, Single phase, 2-pole, Amb compensate bimetal OLrelay Contactor amp rating 60Amp 110 120/220 240VAC 60HZ coil, Non-combination type, Enclosure type 12, Dust/drip proof for indoors

rigure similar	Figure	similar
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product brand name	Class 14 & 22
design of the product	Full-voltage non-reversing motor starter
special product feature	Half-size starter; Dual voltage coil
General technical data	
weight [lb]	13 lb
Height x Width x Depth [in]	16 × 8 × 6 in
touch protection against electrical shock	NA for enclosed products
installation altitude [ft] at height above sea level maximum	6560 ft
ambient temperature [°F]	
<ul> <li>during storage</li> </ul>	-22 +149 °F
during operation	-4 +104 °F
ambient temperature	
<ul> <li>during storage</li> </ul>	-30 +65 °C
during operation	-20 +40 °C
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for single-phase AC motor	
<ul> <li>at 115 V rated value</li> </ul>	5 hp
<ul> <li>at 200/208 V rated value</li> </ul>	10 hp
<ul> <li>at 220/230 V rated value</li> </ul>	10 hp
Contactor	
size of contactor	Controller half size 2 1/2
number of NO contacts for main contacts	2
operating voltage for main current circuit at AC at 60 Hz maximum	240 V
operational current at AC at 600 V rated value	60 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	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 voltage110 240 V• at AC at 60 Hz rated value110 240 Vholding power at AC minimum8.6 Wapparent pick-up power of magnet coil at AC218 V·Aapparent holding power of magnet coil at AC25 V·Aoperating range factor control supply voltage rated value of magnet coil0.85 1.1percental drop-out voltage of magnet coil related to the input voltage50 %switch ON delay time19 29 msOFF delay time10 24 msOverload relayproduct function	
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	
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of magnet coil     percental drop-out voltage of magnet coil related to the input voltage       switch ON delay time     19 29 ms       OFF delay time     10 24 ms       Overload relay     product function	
input voltage     19 29 ms       switch ON delay time     19 29 ms       OFF delay time     10 24 ms       Overload relay     product function	
OFF delay time 10 24 ms Overload relay product function	
Overload relay product function	
product function	
overload protection     Yes	
test function     Yes	
external reset     Yes	
reset function Manual and automatic	
adjustment range of thermal overload trip unit 0.85 1.15	
number of NC contacts of auxiliary contacts of overload 1 relay	
number of NO contacts of auxiliary contacts of overload 0 relay	
operational current of auxiliary contacts of overload relay	
• at AC at 600 V 5 A	
• at DC at 250 V 5 A	
contact rating of auxiliary contacts of overload relay according to UL 5A@600VAC (B600), 5A@250VDC (P300)	
Enclosure	
degree of protection NEMA rating 12	
design of the housing Dust tight and drip proof for indoors	
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 45 45 lbf·in	
temperature of the conductor for supply maximum 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 35 50 lbf·in	
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 2x (16 12 AWG)	
coil at AWG cables single or multi-stranded       temperature of the conductor at magnet coil maximum       75 °C	
permissible 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 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	
at AWG cables for auxiliary contacts single or multi- stranded	
temperature of the conductor at contactor for auxiliary 75 °C 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 5 12 lbf·in contacts	
type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi- stranded 2x (16 12 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)
design of the short-circuit trip	Thermal magnetic circuit breaker
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	14 kA
• at 480 V	10 kA
• at 600 V	10 kA
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14

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=US2:14GP120A81

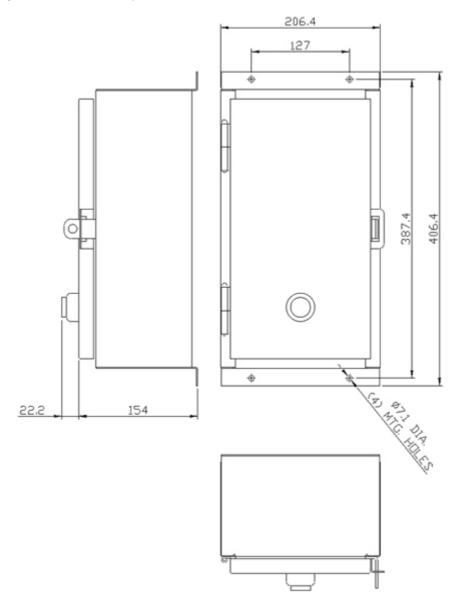
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

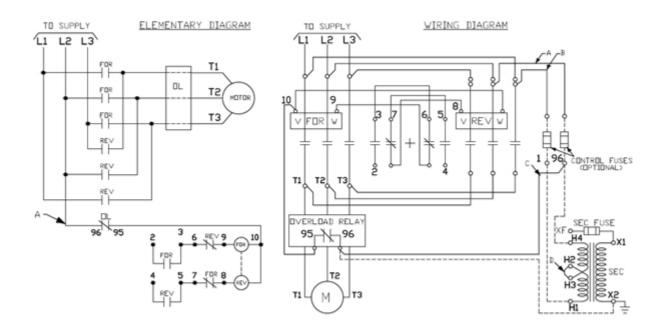
https://support.industry.siemens.com/cs/US/en/ps/US2:14GP120A81

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:14GP120A81&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14GP120A81/certificate





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