SIEMENS

Data sheet

US2:30CUCB32B2HF



2-speed 3-phase motor starter, Size 0, One winding consequent pole, Constant horsepower, Solid-state overload relays, Low Spd OLR range 0.75-3.4A, High Spd OLR range 3-12A, 110V 50Hz / 120V 60Hz coil, Enclosure NEMA type 1, Indoor general purpose use

Fi	gur	es	imi	lar
	-			

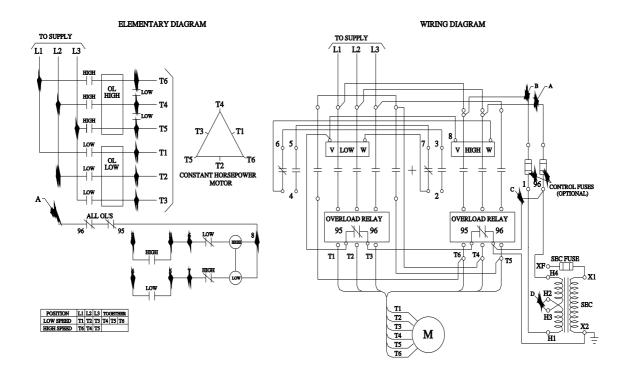
product brand name	Class 30	
design of the product	- Full-voltage two speed motor starter	
special product feature	ESP200 overload relay	
General technical data		
weight [lb]	24 lb	
Height x Width x Depth [in]	20 × 12 × 8 in	
touch protection against electrical shock	NA for enclosed products	
installation 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 	2 hp	
• at 220/230 V rated value	2 hp	
• at 460/480 V rated value	3 hp	
• at 575/600 V rated value	3 hp	
Contactor		
size of contactor	NEMA controller size 0	
number of NO contacts for main contacts	6	
operating voltage for main current circuit at AC at 60 Hz maximum	600 V	
operational current at AC at 600 V rated value	18 A	
mechanical service life (switching cycles) of the main contacts typical	1000000	
Auxiliary contact		
number of NC contacts at contactor for auxiliary contacts	2	
number of NO contacts at contactor for auxiliary contacts	2	
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		

Index B 6 W separate isk-up power of magnet coil at AC 248 VA operant holding power of magnet coil at AC 25 VA operant holding power of magnet coil at AC 25 VA operant holding power of magnet coil at AC 25 VA operant of the power of magnet coil at AC 25 VA operant of the power of magnet coil at AC 25 VA operant of the power of magnet coil related to the power of visioge 50 % OPF-fieldsy time 10 24 ms Overload protection Yes • evoltida protection Yes • evoltida tradit detection Yes • evoltida tradit detection Yes • evoltidati teleation Yes • or two trational speed 0.7 34 A of the writitional speed 0.7 34 A relation of auxiliary contacts of overload relay 14. ordicational speed 1	 at AC at 50 Hz rated value 	110 V	
apparent hick-up power of magnet coil at AC 28 VA apparent holding power of magnet coil at AC 28 VA operating rank-disconcorride supply voltage rated value 0.85 1.1 percential drop-out voltage of magnet coil related to the 0.85 1.1 percential drop-out voltage of magnet coil related to the 0.85 1.1 percential drop-out voltage of magnet coil related to the 0.85 1.1 percential drop-out voltage of magnet coil related to the 0.85 1.1 overload protection Yes • existing reset Yes • existing reset Yes • existing reset Yes • or rigin rotational speed 0.75 3.4 Å • or rigin rotational speed 1 %			
apparent holding power of magnet coll at AC 25 VA operating range focier control supply votage rated value 0.85 1.1 of magnet coll 0.95 1.1 protect at drop-out votage of magnet coll related to the point votage rated value 0.85 1.1 OFF-foldsy time 10 24 ms Overload ratay Ves overload protection Yes • orgound fault detection Yes • external resel Wanual, automatic and remote tradigutable current response value current of overload 0.75 34 A • or high rotational speed 0.75 34 A • or high rotational speed 3 12 A make time with automatic start after power failure 76 A • or high rotational speed 1 14 A • or high rotational speed 3 12 A make time with automatic start after power failure 76 A • or high rotational speed 1 14 A<			
operating range factor control supply voltage rated value of magnet coll and rate of the control supply voltage rated value of magnet coll 0.85 1.1 percential drop-out voltage of magnet coll related to the input voltage (DF-delay time) 10 24 ms Overload rate/ product function Yes • overload protection Manual, automatic stand remote right protection speed 0.75 3.4 A • or high rotational speed 3 s • or high rotational speed 1 operational current of auxiliary contacts of overload relay 1 operation auxiliary contacts of overload relay 5 A <td></td> <td></td>			
of magnet coll 50 % precendal dirp-cut voltage of magnet coll related to the input voltage. 50 % OV-delay time 10 24 ms Overload relay product function • verload protection Yes • overload need Yes • overload need 0.75 34 A • overload need 3 12 A make time with automatic start after power failure 3 make time with automatic start after power failure 3 make time with automatic start after power failure 3 product fusture protective coating on printed-circuit bacd 1 product failure 3 1 product failure 5.A 1 operational current of auxiliary contacts of overload relay 5.A			
input voltage 10 28 ms OFF-foldy time 10 24 ms Overload relay 10 24 ms Overload relay 10 24 ms overload protection Yes • overload protection Manual, automatic and remote (Ir protective content of overload relay Or5 34 A • for high rotational speed 3 12 A • overload protective conteg on printed -icruit board relay Yes relative repeat accuracy 1 % product faultice protective contage of overload relay 1 relative rotective contacts of overload relay 1 operational current of auxiliary contacts of overload relay 5 A • at D C at 250 V 5 A • at D C at 250 V 5 A • at D C at 2	of magnet coil		
OFF-delay time 10 24 ms Overfoad ratay Yes • overfoad protection Yes • ophase failure detection Yes • asymmetry detection Yes • asymmetry detection Yes • exit function Yes • of high rotational speed 0.75 3.4 A • for high rotational speed 0.75 3.4 A • of high rotational speed 3 s • for high rotational speed 1 • or high rotational speed 1 • or high rotational speed 1 • at D cat 250 V 1 • at D cat 250 V 5 A • at D		50 %	
Overlaad relay Yes product function Yes • overlaad protection Yes • asymmetry detection Yes • asymmetry detection Yes • asymmetry detection Yes • external reset Yes • external reset Yes reset function Yes relative repearator Yes of row rotational speed 0.75 3.4 A 3 12 A maximum relative repearatoruracy 1% product feature protective coaling on printed-circuit board 1 number of NC contacts of auxiliary contacts of overload 1 operational current of auxiliary contacts of overload relay 5A octact strig of auxiliary contacts of overload relay 5A according to UI fidoors, usable on a general basis Mountilitybrase operation at AC rated value 300 V edising of the housing fidoors, usable on a general basi	ON-delay time	19 29 ms	
product function Yes • overfoad protection Yes • phase failure detection Yes • asymmetry detection Yes • orgound fault detection Yes • est function Yes • test function Yes • test function Manual. automatic and remote trip class CLASS 5 / 10 / 20 (factory set) / 30 - diplustable current response value current of overload relay 075 34 A • for high rotational speed 0,75 34 A • for high rotational speed 0,75 34 A • for high rotational speed 1% • for high rotational speed 1% • for high rotational speed 1 • arch at 60 V 1 • arch at 60 V 1 • arch 2 at 20 V 1A contact rating of auxiliary contacts of overload relay 5A • at C at 250 V 1A contact rating of auxiliary contacts of overload relay 5A • at C at 250 V 1A off the housing 1 <	OFF-delay time	10 24 ms	
• overlad protection Yes • phase failure detection Yes • asymmetry detection Yes • ground fault detection Yes • estimular seet Yes • of nigh rotational speed 0.75 3.4 A • of nigh rotational speed 3 12 A make time with automates start after power failure 3s product feature protective coating on printed-circuit board Yes number of NC contacts of auxiliary contacts of overload relay 1 • at OC at 600 V 5 A	Overload relay		
Phase failure detection Yes asymmetry detection Yes result detection Yes result detection Yes reset function Yes reset re	product function		
esymmetry detection Yes yes yes external reset inction Yes ves external reset Yes ves external reset Yes ves external reset Yes ves v	 overload protection 	Yes	
e ground fault detectionYes• test functionYesreset functionManual, automatic and remoterip classCLSS 5 / 10 / 20 (factory set) / 30adjutable current response value current of overload relay0.75 34 A• for fing rotational speed0.75 34 A• for fing rotational speed3 12 A• for fing rotational speed3 12 A• for fing rotational speed1%• product feature protective coating on printed-circuit boardYesproduct feature protective coating on printed-circuit board1• at DC at 250 V1• at DC at 250 V1A• at DC at 250 V1A• with multi-phase operation at AC rated value600 V• with multi-phase operation at AC rated value600 V• with multi-phase operation at AC rated value600 V• with multi-phase operation at AC rated value500 V• with multi-phase operation at AC r	 phase failure detection 	Yes	
	 asymmetry detection 	Yes	
• external reset Yes reset function Manual, automatic and remote Manual, automatic and remote rip class CLASS 5/10 / 20 (factory set) / 30 adjustable current response value current of overload relay 0.75 3.4 A • for high rotational speed 3 12 A make time with automatic start after power failure 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 1 operational current of auxiliary contacts of overload relay eaccording to UL 5.A Insulation voltage (UI) 5.A • at DC at 250 V 1.A contact rating of auxiliary contacts of rated value with multi-phase operation at AC rated value 600 V owning position at C rated value 500 V edeign of the housing indoors, usable on a general basis Mounting/wring 1 2020 librin Mounting voltion Suraface mounting and ins	 ground fault detection 	Yes	
reset function Manual, automatic and remote trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of overload relay CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of overload relay 0.75 3.4 A • for high rotational speed 3 12 A make time with automatic start after power failure maximum 3 s relative repeat accuracy 1% product feature protective coating on printext-circuit board relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay • at DC at 260 V 5 A • at DC at 260 V 5 A • at DC at 260 V 5 A • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 500 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 500 V • with multi-phase operation at AC rated value 600 V • with multing posoliton Seree-type terminals	test function	Yes	
trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of overload relay 0.75 3.4 A • for high rotational speed 3 12 A make time with automatic start after power failure 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 • at DC at 250 V 1 A • at DC at 250 V 1 A contacts rating of auxiliary contacts of overload relay 5 A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5 A • 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 500 V fastering method Surface mounting and installation type of electrical connection for supply voltage line-side Surface mounting and installation type of electrical connection for supply waiting reset 20 20 lof in type of electrical connection for supply maximum permissible 75 °C material of the conductor for load-side outgoing feeder 20	external reset	Yes	
adjustable current response value current of overload e for low rotational speed of thigh rotational speed adjustable current response value current of overload make time with automatic start after power failure makinum relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay ext AC at 600 V • at DC at 250 V contact rating of auxiliary contacts of overload relay according to UL insulation voltage (Ui) • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value Bootting of the housing Mounting/wiring mounting position Vertical fastening method type of connectable conductor ross-sections at line-side tat AWG cables single or multi-stranded themperature of the conductor for supply type of electrical connection for supply maximum permissible top of electrical conductor for supply maximum permissible top of electrical conductor for	reset function	Manual, automatic and remote	
adjustable current response value current of overload e for low rotational speed 3 12 A make time with automatic start after power failure 3 s 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 operational current of auxiliary contacts of overload relay 5 A octat 250 V 1 A contact at 600 V 1 A eat DC at 250 V 1 A contact raing of auxiliary contacts of overload relay 5 @6000VAC (B600), 1 @250VDC (R300) according to UL 600 V insulation voltage (UI) 600 V • with multi-phase operation at AC rated value 800 V • with multi-phase operation at AC rated value 800 V egree of protection NEMA rating 1 degree of protection NEMA rating 1 fastening method Surface mounting and installation type of connectable conductor cross-sections at line-side 3220 Erinia type of connectable conductor cross-sections at line-side 3220 Erinia	trip class	CLASS 5 / 10 / 20 (factory set) / 30	
• for high rotational speed 3 12 A make time with automatic start after power failure 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 relay 1 operational current of auxiliary contacts of overload relay 1 • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5 A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5 A@600VAC (B600), 1 A@250VDC (R300) according to UL 5 A insulation voltage (Ui) 600 V • with multi-phase operation at AC rated value 600 V • with single-phase operation at AC rated value 300 V Enclosure 1 mounting position Vertical fastening method Screw-kype terminals tightening torque [bf-in] for supply voltage line-side Screw-kype terminals tightening torque [bf-in] for supply voltage line-side Screw-kype terminals tightening torque [bf-in] for supply AL or CU ta AWC cables single or multit-strated Screw-kype terminals			
make time with automatic start after power failure 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 number of NO contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 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(8600VAC (8600), 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 degree of protection NEMA rating 1 degree of protection NEMA rating 1 design of the housing indoors, usable on a general basis Mounting/wiring Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Screw-type terminals tightening torque [bf/in] for supply 20 20 lbf/in type of electrical connector for supply maximum permissible 75 °C material of the conductor for supply maximum permissible 20 lbf/in material of the conductor for load-side outgoing feeder <t< td=""><td> for low rotational speed </td><td>0.75 3.4 A</td></t<>	 for low rotational speed 	0.75 3.4 A	
maximum 1 % 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 relay 1 e at AC at 600 V 5 A • at AC at 600 V 5 A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5A@600VAC (B600), 1A@250VDC (R300) according to UL 5A@600VAC (B600), 1A@250VDC (R300) insultation voltage (Ui) 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V Enclosure 1 degree of protection NEMA rating 1 design of the housing Indoors, usable on a general basis Mounting/wiring Screae-type terminals mounting position Vertical fastening method Surface mounting and installation type of connectable conductor rors s-sections at line-side 1x (14 2 AWG) at AWC cables single or multi-stranded 20 20 librin type of e	 for high rotational speed 	3 12 A	
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 relay 1 operational current of auxiliary contacts of overload relay 1 e at AC at 600 V 5 A • externation of uxiliary contacts of overload relay 5A according to UL 5A insulation voltage (Ui) 600 V • with single-phase operation at AC rated value 600 V • with single-phase operation at AC rated value 300 V Enclosure 1 degree of protection NEMA rating 1 design of the housing indoors, usable on a general basis Mounting/wiring mounting position Vertical Surface mounting and installation Strue Surface mounting and installation Ype of electrical connection for supply voltage line-side 1x (14 2 AWG) tightening torque [Ibf-in] for supply 20 20 Ibf-i	•	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 1 • at AC at 600 V 5 A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5 A 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 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 800 V Enclosure • degree of protection NEMA rating 1 Indoors, usable on a general basis Mounting/wiring mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side 1x (14 2 AWG) tamperature of the conductor for supply maximum 75 °C	relative repeat accuracy	1 %	
relay 1 operational current of auxiliary contacts of overload relay 1 • at DC at 500 V 5 A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5A@600VAC (B600), 1A@250VDC (R300) according to UL 5A@600VAC (B600), 1A@250VDC (R300) according to UL 600 V 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 degree of protection NEMA rating 1 design of the housing indoors, usable on a general basis Mounting/wiring 0 mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side 2020 Ibf in type of connectable conductor for supply maximum 75 °C material of the conductor for supply maximum 75 °C persitual or the conductor for supply maximum 2020 Ibf in type of connectable conductor for supply maximum 75 °C persitual of the conductor for supply maximum 75 °C remperature of the conductor for loa	product feature protective coating on printed-circuit board	Yes	
relay 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 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 4 design of the housing Indoors, usable on a general basis Mounting/wiring Indoors, usable on a general basis Mounting position Vertical fastening method Surface mounting and installation type of electrical connectable conductor for supply voltage line-side 1x (14 2 AWG) at AWG cables single or multi-stranded 75 °C material of the conductor for supply AL or CU type of electrical connectable conductor ross-sections at AWG cables outgoing feeder 20 20 lbf in type of electrical connectable conductor for supply maximum permissible 75 °C material of the conductor for load-side outgoing feeder 20 20 lbf in type of electrical connectable conductor for supply AL or CU tightening torque [lbf-in] for load-side o		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 300 V Enclosure		1	
• at DC at 250 V1 Acontact rating of auxiliary contacts of overload relay according to UL5A@600VAC (B600), 1A@250VDC (R300)insulation voltage (UI)600 V• with single-phase operation at AC rated value600 V• with multi-phase operation at AC rated value300 VEnclosure1degree of protection NEMA rating1design of the housingindoors, usable on a general basisMounting/wiringVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-side at AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor cors-sections at AWG cables for load-side outgoing feeder20 20 lbf intype of connectable conductor cors-sections at AWG cables for load-side outgoing feeder20 20 lbf intype of electrical connection for load-side outgoing feeder20 20 lbf intype of connectable conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder20 20 lbf intype of connectable conductor cors-sections at AWG cables for load-side outgoing feeder20 20 lbf intype of connectable conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder20 20 lbf intype of electrical connection for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Ctemperature of the conducto	operational current of auxiliary contacts of overload relay		
contact rating of auxiliary contacts of overload relay according to UL5A@600VAC (B600), 1A@250VDC (R300)insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value degree of protection NEMA rating design of the housing600 V 300 VEnclosuredegree of protection NEMA rating design of the housing1 indoors, usable on a general basisMounting/wiringmounting position fastening methodVertical Surface mounting and installationtype of electrical connection for supply voltage line-side itightening torque [lbf-in] for supply20 20 lbf-in 1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder 20 20 lbf-in20 20 lbf-intype of electrical connection for load-side outgoing feeder at a WG20 20 lbf-intype of electrical connection for supply maximum permissible75 °Cmaterial of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder able so rolad-side outgoing feeder able so rolad-side outgoing feeder for and able so ab	• at AC at 600 V	5 A	
according to UL insulation voltage (Ui) 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 600 v degree of protection NEMA rating 1 design of the housing indoors, usable on a general basis Mounting/wiring mounting position mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Screw-type terminals tightening torque [lbf-in] for supply 20 20 lbf-in type of connectable conductor cross-sections at line-side 1x (14 2 AWG) at AWG cables single or multi-stranded 75 °C material of the conductor for supply AL or CU type of connectable conductor cross-sections at AWG 2x (14 2 AWG) tightening torque [lbf-in] for load-side outgoing feeder 20 20 lbf-in type of electrical connection for load-side outgoing feeder 20 20 lbf-in type of connectable conductor cross-sections at AWG 3x (14 2 AWG) demensible XI or CU temperature of the conductor	• 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 Enclosure degree of protection NEMA rating indoors, usable on a general basis Mounting/wiring mounting position Vertical Surface mounting and installation type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 20 20 lbf-in tx (14 2 AWG) targer at AC rate outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AC rate to runting type of electrical connection for supply AL or CU type of connectable conductor for load-side outgoing feeder tightening tor load-side outgoing feeder tar (14 2 AWG) 		5A@600VAC (B600), 1A@250VDC (R300)	
with multi-phase operation at AC rated value 300 V Enclosure degree of protection NEMA rating design of the housing indoors, usable on a general basis Mounting/wiring mounting position Yertical fastening method Surface mounting and installation Surface mounting and installation type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply voltage line-side ta AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder tage of the conductor for l	insulation voltage (Ui)		
Enclosure degree of protection NEMA rating 1 design of the housing indoors, usable on a general basis Mounting/wiring mounting position Vertical Surface mounting and installation type of electrical connection for supply voltage line-side Screw-type terminals tightening torque [lbf-in] for supply 20 20 lbf-in type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded 1x (14 2 AWG) temperature of the conductor for supply maximum permissible 75 °C material of the conductor cross-sections at AWG cables outgoing feeder 20 20 lbf-in type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder 20 20 lbf-in type of electrical connection for load-side outgoing feeder 20 20 lbf-in type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder 20 20 lbf-in type of connectable conductor for load-side outgoing feeder 1x (14 2 AWG) temperature of the conductor for load-side outgoing feeder 1x (14 2 AWG) cables for load-side outgoing feeder 75 °C maximum permissible 75 °C material of the conductor for load-side outgoing feeder 1x (14 2 AWG) </td <td> with single-phase operation at AC rated value </td> <td>600 V</td>	 with single-phase operation at AC rated value 	600 V	
degree of protection NEMA rating 1 design of the housing indoors, usable on a general basis Mounting/wiring mounting position Mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Screw-type terminals tightening torque [lbf-in] for supply 20 20 lbf-in type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded 1x (14 2 AWG) temperature of the conductor for supply maximum permissible 75 °C material of the conductor for load-side outgoing feeder Screw-type terminals tightening torque [lbf-in] for load-side outgoing feeder 20 20 lbf-in type of connectable conductor for supply AL or CU type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder 20 20 lbf-in type of connectable conductor for load-side outgoing feeder 1x (14 2 AWG) temperature of the conductor for load-side outgoing feeder 20 20 lbf-in type of connectable conductor for load-side outgoing feeder 75 °C maximum permissible 75 °C maximum permissible 75 °C material of the conductor for load	 with multi-phase operation at AC rated value 	300 V	
design of the housingindoors, usable on a general basisMounting/wiringmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [lbf-in] for supply20 20 lbf-intype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder20 20 lbf-intype of connectable conductor for supplyAL or CUtype of connectable conductor for supply1x (14 2 AWG)material of the conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder20 20 lbf-intype 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 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feederAL or CU	Enclosure		
design of the housingindoors, usable on a general basisMounting/wiringmounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [lbf-in] for supply20 20 lbf-intype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder20 20 lbf-intype of connectable conductor for supplyAL or CUtype of connectable conductor for supply1x (14 2 AWG)material of the conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder20 20 lbf-intype 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 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feederAL or CU	degree of protection NEMA rating	1	
mounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [lbf-in] for supply20 20 lbf-intype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder20 20 lbf-intightening torque [lbf-in] for load-side outgoing feeder20 20 lbf-intype of connectable conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder20 20 lbf-intype of connectable conductor for load-side outgoing feeder1x (14 2 AWG)temperature 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 feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feed		indoors, usable on a general basis	
mounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [lbf-in] for supply20 20 lbf-intype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder20 20 lbf-intightening torque [lbf-in] for load-side outgoing feeder20 20 lbf-intype of connectable conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder20 20 lbf-intype of connectable conductor for load-side outgoing feeder1x (14 2 AWG)temperature 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 feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feed	Mounting/wiring		
fastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [lbf-in] for supply20 20 lbf-intype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederScrew-type terminalstightening torque [lbf-in] for load-side outgoing feeder20 20 lbf-intype of connectable conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder20 20 lbf-intightening torque [lbf-in] for load-side outgoing feeder20 20 lbf-intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Ctemperature 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 °Cmaterial of the conductor for load-side outgoing feeder75 °C		Vertical	
type of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [lbf·in] for supply20 20 lbf·intype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables of electrical connection for load-side outgoing feeder20 20 lbf·intightening torque [lbf·in] for load-side outgoing feeder20 20 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder20 20 lbf·intype of connectable conductor for load-side outgoing feeder20 20 lbf·intype of connectable conductor for load-side outgoing feeder20 20 lbf·intype of connectable conductor for load-side outgoing feeder20 20 lbf·intype of connectable conductor for load-side outgoing feeder1x (14 2 AWG)temperature of the 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 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feederAL or CU			
tightening torque [lbf-in] for supply20 20 lbf-intype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder20 20 lbf-intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder20 20 lbf-intype of connectable conductor for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder20 20 lbf-intype of connectable conductor 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 feederAL or CUtemperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder75 °C			
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded1x (14 2 AWG)temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederScrew-type terminalstightening torque [lbf-in] for load-side outgoing feeder20 20 lbf-intype of connectable conductor cross-sections at 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 feeder20 20 lbf-intype of connectable conductor for load-side outgoing feeder stranded1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder75 °C			
temperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederScrew-type terminalstightening torque [lbf·in] for load-side outgoing feeder20 20 lbf·intype of connectable conductor cross-sections at 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 CU	type of connectable conductor cross-sections at line-side		
material of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederScrew-type terminalstightening torque [lbf·in] for load-side outgoing feeder20 20 lbf·intype of connectable conductor cross-sections at 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 CU	temperature of the conductor for supply maximum	75 °C	
type of electrical connection for load-side outgoing feederScrew-type terminalstightening torque [lbf·in] for load-side outgoing feeder20 20 lbf·intype of connectable conductor cross-sections at 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 CU		AL or CU	
tightening torque [lbf-in] for load-side outgoing feeder 20 20 lbf-in type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded 1x (14 2 AWG) temperature of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder AL or CU			
type of connectable conductor cross-sections at 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			
temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederAL or CU	type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-		
	temperature of the conductor for load-side outgoing feeder	75 °C	
type of electrical connection of magnet coil Screw-type terminals	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 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 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=US2:30CUCB32B2HF			
Service&Support (Manuals, Certificates, Characteristics, https://support.industry.siemens.com/cs/US/en/ps/US2:30CU	ICB32B2HF		
Image database (product images, 2D dimension drawing	s, 3D models, device circuit diagrams, EPLAN macros,)		

Image database (product images, 2D dimension drawings, 3D models, device circuit diagra http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:30CUCB32B2HF&lang=en

Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:30CUCB32B2HF/certificate



D46590006

last modified:

1/25/2022 🖸