SIEMENS

Data sheet

US2:83DUC95BH



Duplex starter w/o alternator, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 3-12A, 380-440/440-480V 50/60Hz coil, Non-combination type, Enclosure NEMA type 1, Indoor general purpose use

Figuresimilar	Figure	simi	lar
---------------	--------	------	-----

product brand name	Class 83
design of the product	Duplex controller without alternator
special product feature	ESP200 overload relay
General technical data	
weight [lb]	40 lb
Height x Width x Depth [in]	20 × 16 × 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]	
 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 	5 hp
• at 575/600 V rated value	5 hp
Contactor	
size of contactor	NEMA controller size 1
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	27 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	

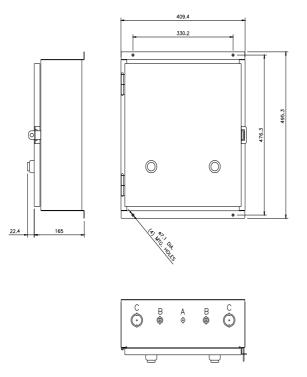
in AC at 80 Variable in AC at 80 Va		0 01/
• at AC at 00 Mz rate value 440,480 V holding power of Magnet coll at AC 28 VA apparent joking power of magnet coll at AC 28 VA apparent joking power of magnet coll at AC 28 VA apparent joking power of magnet coll at AC 28 VA apparent joking power of magnet coll at AC 28 VA apparent joking power of magnet coll at AC 28 VA apparent joking power of magnet coll at AC 28 VA apparent joking power of magnet coll at AC 28 VA apparent joking power of magnet coll at AC 28 VA apparent joking power of magnet coll at AC 28 VA apparent joking power of magnet coll related to the part of the correct. 50 % OPF-delay time 19,28 ms oround potection Yes • external reset Yes<	at DC rated value	0 0 V
Incling power at AC minimum 8.6 W apparent hick-up power of magnet coil at AC 28 VA apparent hick-up power of magnet coil at AC 28 VA operating range factor complisation of the compliance of magnet coil at AC 28 VA operating range factor complisation of magnet coil related to the power of the power of the power of magnet coil related to the power of the po		
apparent pick-up power or magnet coil at AC 218 VA apparent highting power of magnet coil at AC 218 VA apparent highting power of magnet coil at AC 25 VA operating range factor control supply voltage rated value of magnet coil. 0.85 1.1 percential (op-out voltage of magnet coil related to the input voltage. 50 % CM-delay time 10 24 ms Cyteridad relay 0 24 ms Cyteridad relay Yes • operating transport Yes • asymmetry detection Yes • sets function Yes • test function S • test function S • test function Yes • test function S		
apparent holding power of magnet coil at AC 25 VA operating range factor control supply voltage rated value of magnet coil 0.85 1.1 operating range factor control supply voltage rated value input voltage 0.95 ON-OH-OHE Voltage 0 24 ms Overload rate/ Product fination Yes • overload protection Yes • asymmetry detection Yes • asymmetry detection Yes • asymmetry detection Yes • estemal reset Yes reset function Yes • estemal reset Yes reset function Yes • estemal reset Yes reset function Yes reset fun		
operating range factor control supply voltage rated value 0.85 1.1 of magnite coll 50 % CM-detay time 10 24 ms Overload relay me product function Yes • overload protection Yes • agyment y detection Yes • agyment y detection Yes • agyment y detection Yes • external reset Yes • external reset Yes • external reset Yes reset function Yes • external reset Yes reset function 3 s reflexitive repeat accuracy Yes reproduct facture protective coating on printed-circuit board 1 % retarb of Alox contacts of overload relay 5 Å • at DC at 250 V 1 Å orontact rating of auxiliary contacts of overload relay 5 Å • at DC at 250 V 5 Å <		
of magnit call 50 % precental dropout voltage of magnet col related to the injut voltage 50 % ON-delay time 10 24 ms Overload relay product function • overload protection Yes • phase failure detection Yes • asymmetry detection Yes • asymmetry detection Yes • asymmetry detection Yes • external reset Yes reset function Yes reset function Yes reset function Yes relative repeat accuracy 1 % product function Yes relative repeat accuracy 1 % product feature protective coating on printed circuit board 1 relative repeat accuracy 1 % product feature protective coating on printed circuit board 1 number of NO contacts of availiary contacts of overload relay 5 A • at AC at 600 V		
input voltage 929 ms ON-delay time 1024 ms Overload relay 9 product function Yes • overload protection Yes • pase failure detection Yes • gound failure detection Yes • gound failure detection Yes • external reset Yes • external reset Yes • external reset Yes • product flaut detection Yes • external reset Yes • external reset Yes • external reset Yes • product flaut detection Manual, automatic and remote adjustable current response value current of the current-dependent overload relase 3 12 A opperational current of auxiliary contacts of overload 1 relative repeat accuracy Yes • at DC at 280 V 5 A • at DC at 280 V 5 A • at DC at 280 V 5 A • with migle-phase operation at AC rated value 600 V • with single-phase operation at AC rated value 300 V		0.85 1.1
OPEF-delay time 10 24 ms Overload relay voerload protection • overload protection Yes • phase failure detection Yes • asymmetry detection Yes • asymmetry detection Yes • external reset Yes • external reset Yes • external reset Yes reset function Manual, automatic and remote adjustable current response value current of the current- dependent overdoad relases 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 3 s. orbitart of auxiliary contacts of overload relay 5 A • at DC at 250 V 1 A orbitart staffig-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 00 V • with multi-phase operation at AC rated value 500 V • with multi-phase operation at AC rated value 500 V • with multi-phase operation at AC rated value 500 V • with multi-phase operation at AC rated value 500 V • with multi-phase operation at AC rated value 500 V • with multi-ph		50 %
Overload roley Yes product function Yes • pase failure detection Yes • asymmetry detection Yes • ground fault detection Yes • external reset Yes • external reset Yes • external reset Yes • external reset Yes reset function 3 s reset function 3 s reset function 3 s relative repeat accuracy 1 % product fault protective coaling on printed-circuit board 1 reset function 4 Se operational current of auxiliary contacts of overload 1 rumber of NC contacts of auxiliary contacts of overload relay 5 A • at DC at 280 V 1 A contact rating of auxiliary contacts of overload relay 5A@@00VAC (B600), 1A@250VDC (R300) execreding to U. indoors, usable on a general basis Meanting/whiting Moors, usable on a general basis Mounting/whiting Moors, usable on a general basis Mounting traped the conductor for supply voltage line-side Suras 3 birlin	ON-delay time	19 29 ms
product function Yes • overfad protection Yes • phase failure detection Yes • agromatify detection Yes • ecternal feadure Yes • external reset Yes • external reset Yes • external reset Yes • external reset Yes reset function 3 s digitable current response value current of the current- dependent overload release 3 s ringing time at phase-loss maximum 3 s product feature protective coating on printed-circuit board 1 s product feature protective coating on printed-circuit board 1 s ornate rating of auxiliary contacts of overload 1 relay • at DC at 250 V 1 A ornater rating of auxiliary contacts of overload relay 5 A according to UL 5 A insulton votage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value 800 V Surface mounting and installation Surface mounting and installation Type of electrical connection for supply valtage line-side	OFF-delay time	10 24 ms
• overload protection • phase failure detection • phase failure detection • asymmetry detection • ges • asymmetry detection • yes • asymmetry detection • yes • external reset	Overload relay	
	product function	
e asymmetry detection Yes yes external reset adjustable current response value current of the current- dependent overfade release friphing time at hnse-loss maximum 3 s relative repeat accuracy product feature protective coating on printed-circuit bard relay number of NC contacts of auxiliary contacts of overload 1 number of NC contacts of auxiliary contacts of overload relay eart AC at 600 V s A C at 600 V subtlinary contacts of overload relay seconding to UL insulation voltage (UI) subtlinary contacts of overload relay solut bard eart AC at 600 V s A C at 600 V subtlinary contacts of overload relay solut bard solut bard solut bard solut bard solut bard solut bard solut	 overload protection 	Yes
eryound fault detection external reset external reset Yes external reset Yes reset function Manual, automatic and remote adjustable current response value current of the current- dependent overfoad release tripping time at phase-loss maximum 3 s relative repeat accuracy repeat accuracy relative repeat accuracy repeat accuracy	 phase failure detection 	Yes
test function Yes external reset Yes instruction digutable current response value current of the current- dependent overload release fipping time at phase-loss maximum 3 s relative repeat accuracy inwher of NC contacts of auxiliary contacts of overload relay rumber of NC contacts of auxiliary contacts of overload relay eart AC at 600 V st AC at 600 V st AC at 250 V t A at DC at 250 V t A at DC at 250 V t A contact rating of auxiliary contacts of overload relay according to UL insultator voltage (U) with multi-phase operation at AC rated value 300 V ewith multi-phase operation at AC rated value 300 V etaloge munting position fastening method ype of electrical connection for supply voltage line-side Strace mounting and installation type of electrical connection for supply naximum per of supply maximum 75 °C memtaid of the conductor for supply maximum per of supply in for lad-side outgoing feeder Screw-type terminals fightening torque [librin] for lad-side outgoing feeder Screw-type terminals fightening torque [librin] for lad-side outgoing feeder Screw-type terminals fightening torque [librin] for lad-side outgoing feeder Screw-type terminals fightening torque [librin] for lad-side outgoing feeder Screw-type terminals [ightening torque [librin] for lad-side outgoing feeder Screw-type terminals [ightening torque [librin] for lad-side outgoing feeder Screw-type terminals [ightening torque [librin] tor lad-side outgoing feeder Screw-type terminals [i	 asymmetry detection 	Yes
• external reset Yes reset function Manual, automatic and remote adjustable current response value current of the current- dependent overload release 3 12 A tripping time at phase-loss maximum 3 s relative repeat accuracy 1 % product feature protective coating on printed-circuit board Yes number of NC contacts of auxiliary contacts of overload 1 relative repeat accuracy 1 % operational current of auxiliary contacts of overload relay 1 • at DC at 250 V 5 A • at DC at 250 V 1A insulation voltage (Ui) 5 A(@600VAC (@600), 1A@250VDC (R300) • 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 • with multi-phase operation at AC rated value 500 V • with multi-phase operation at AC rated value 76 C mounting position Surface mounting and installation Surface mounting and installation 75 °C ightening torque [bf in] for supply woltage line-side 35 35 lbf in	 ground fault detection 	Yes
reset function Manual, automatic and remote adjustable current response value current of the current- dependent vertorical release 3 12 A tripping time at phase-loss maximum 3 s relative repeat accuracy 1 % product feature protective coaling on printed-circuit boort Yes number of NC contacts of auxiliary contacts of overload 1 relay ext AC at 600 V 5 A • ett AC at 600 V 5 A • ett AC at 600 V 5 A • ett AC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5A@@600VAC (B600), 1A@250VDC (R300) according to UL insulation voltage (Ui) • with single-phase operation at AC rated value 600 V solut solut Sol@00VAC (B600), 1A@250VDC (R300) ecerced Sol@bool V Sol@bool V • with multi-phase operation at AC rated value 600 V Mounting/wing indoors, usable on a general basis Mounting/wing indoors, usable on a general basis Mounting/wing Surface mounting and installation Type of electrical connection for supply voltage line-side Strew-type terminals tightening torque [bitin]	• test function	Yes
adjustable current response value current of the current- dependent overload release 3 12 A tripping 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 relay 1 operational current of auxiliary contacts of overload relay ext AC at 600 V 1 orbit of auxiliary contacts of overload relay ecording to UL 5 A insultation voitage (Ui) 5 A ext MC at 600 V 5 A insultation voitage (Ui) 6000 V ewith multi-phase operation at AC rated value 6000 V indors, usable on a general basis 600 V degree of protection NEMA rating of the enclosure design of the housing Indors, usable on a general basis Mounting position Surface mounting and installation type of electrical connection for supply voltage line-side Surface mounting and installation type of electrical connection for supply maximum permissible 75 °C material of the conductor for supply maximum permissible 75 °C temperature of the conductor for load-side outgoing feeder 75 °C type of electrical connection for load-side outgoing feeder	 external reset 	Yes
adjustable current response value current of the current- 3 12 A dependent overload release 1 tripping time at phase-loss maximum 3 s 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 ext AC at 600 V 5 A • at AC at 600 V 5 A • at AC at 600 V 5 A • at AC at 600 V 5 A insultation voitage (UI) 5A@600VAC (B600), 1A@250VDC (R300) eccording to UL insultation voitage (UI) 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 Indoors, usable on a general basis Mounting position Surface mounting and installation type of electrical connection for supply voltage line-side at AVC cables single or multi-stranded 35 35 librin temperature of the conductor for supply maximum permissible 75 °C material of the conductor for load-side outgoing feeder 35 35 librin type of electrical connection for load-side outgoing feeder 75 °C </td <td>reset function</td> <td>Manual, automatic and remote</td>	reset function	Manual, automatic and remote
dependent overload release Itipping time at phase-loss maximum Itipping 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 1 relay 1 A 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 5 A according to U. 1 A insulation voltage (U) 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 300 V Enclosure Index rating of the enclosure degree of protection NEMA rating of the enclosure indoors, usable on a general basis Mounting/wiring Surface mounting and installation Type of electrical connection for supply voltage line-side Screw-type terminals tightening torque [Ibf-In] for supply 35 35 Ibf-In Type of electrical connection for supply maximum 75 °C material of the conductor for load-side outgoing fe	adjustable current response value current of the current-	
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 etal CA ta 600 V 5 A insulation voltage (UI) 600 V et With single-phase operation at AC rated value 600 V with multi-phase operation at AC rated value 300 V Enclosure NEMA 1 enclosure degree of protection NEMA rating of the enclosure Indoors, usable on a general basis Mounting/wiring Mounting/wire terminals mounting position Surface mounting and installation Type of electrical connection for supply voltage line-side 1x (14 2 AWG) ightening torque [bf-in] for supply AL or CU Type of electrical connection for load-side outgoing feeder 1x (14 2 AWG) type of electrical connectable conductor cross-sections at AWG 1x (14 2 AWG) tat AWG cables for load-side outgoing feeder<	, ,	
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 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 600 V degree of protection NEMA rating of the enclosure design of the housing Indoors, usable on a general basis Mounting/wiring mounting position Vertical Strace mounting and installation Strace mounting and installation tightening torque [Ibf in] for supply voltage 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 75 °C type of electrical connectain for load-side outgoing feeder 75 °C type of electrical connectain for load-side outgoing feeder 75 °C	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 according to UL 5 A • at AC at 600 V 5 A • at AC at 500 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 000 V • with multi-phase operation at AC rated value 600 V Bindors, usable on a general basis 000 V Enclosure NEMA 1 enclosure design of the housing indoors, usable on a general basis Mounting/wiring Surface mounting and installation Type of electrical connection for supply voltage line-side Screw-type terminals tightening torque [lbf:in] for supply woltage line-side Screw-type terminals tightening torque [lbf:in] for supply maximum permissible 75 °C material of the conductor for supply maximum permissible 75 °C material of the conductor for load-side outgoing feeder Storian type of electrical connection for load-side outgoing feeder 75 °C type of electrical connection for	relative repeat accuracy	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 5 A according to UL 5 A insulation voltage (U) 600 V • with single-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 600 V • output 600 V • with multi-phase operation at AC rated value 600 V • degree of protection NEMA rating of the enclosure NEMA 1 enclosure design of the housing indoors, usable on a general basis Mounting/wring Vertical mounting position Screw-type terminals tastening method Surface mounting and installation type of electrical connection for supply voltage line-side 35	product feature protective coating on printed-circuit board	Yes
relay operational current of auxiliary contacts of overload relay • at AC at 600 V • at 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 degree of protection NEMA rating of the enclosure degree of protection NEMA rating of the enclosure indegree of protection NEMA rating of the enclosure indoors, usable on a general basis Mounting/wiring mounting position Ype of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply 35 35 lbf in type of connectable conductor for supply maximum permissible material of the conductor for supply maximum per electrical connection for load-side outgoing feeder 35 35 lbf in type of electrical connection for load-side outgoing feeder		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 5 A@@00VAC (B600), 1A@250VDC (R300) according to UL insulation voltage (Ui) • 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 500 V Enclosure 6eign of the housing Mounting/wiring indors, usable on a general basis Mounting/wiring Vertical mounting position Vertical fastening method Surface mounting and installation tightening torque [lbf:in] for supply 35 35 lbf:in type of electrical connection for supply maximum 75 °C permissible 75 °C material of the conductor for supply maximum 75 °C predictical connectable conductor rorse-sections at AVVG cables single or multi-stranded 1x (14 2 AVVG) tightening torque [lbf:in] for load-side outgoing feeder 35 35 lbf:in tightening torque [lbf:in] for load-side outgoing feeder 35 35 lbf:in <		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 • evith multi-phase operation at AC rated value 800 V Enclosure NEMA 1 enclosure degree of protection NEMA rating of the enclosure Indoors, usable on a general basis Mounting/wiring mounting position fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Screw-type terminals tightening torque [lbf-in] for supply 35 35 lbf in type of connectable conductor for supply maximum 75 °C permissible Screw-type terminals tightening torque [lbf-in] for load-side outgoing feeder 35 35 lbf in type of connectable conductor rors-sections at AWG 35 35 lbf in ype of electrical connection for load-side outgoing feeder 35 35 lbf in tightening torque [lbf-in] for load-side outgoing feeder 35 35 lbf in		
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 express of protection NEMA rating of the enclosure NEMA 1 enclosure degree of protection NEMA rating of the enclosure NEMA 1 enclosure design of the housing indows, usable on a general basis Mounting/wiring mounting and installation type of electrical connection for supply voltage line-side Screw-type terminals tightening torque [lbf-in] for supply 35 35 lbf-in type of connectable conductor for supply maximum permissible 75 °C material of the conductor for supply AL or CU type of connectable conductor rors-sections at AWG cables for load-side outgoing feeder 35 35 lbf-in type of connectable conductor rors stat AWG cables for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 1x (14 2 AWG) temperature of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C temperature of the conductor for load-side outgoing feeder		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 degree of protection NEMA rating of the enclosure Indoors, usable on a general basis Mounting/wiring 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 [lbf-in] for supply voltage line-side 1x (14 2 AWG) temperature of the conductor for supply maximum 75 °C permissible AL or CU type of connectable conductor cross-sections at AWG 35 lbf-in type of connectable conductor rose-sections at AWG 1x (14 2 AWG) tightening torque [lbf-in] for load-side outgoing feeder 35 35 lbf-in type of electrical connection for load-side outgoing feeder 35 35 lbf-in type of connectable conductor rors supply AL or CU type of connectable conductor for load-side outgoing feeder 1x (14 2 AWG) temperature of the conductor for load-side outgoing feeder 75 °C temperature of the conductor for load-side o	• at DC at 250 V	1A
insulation voltage (Ui) • with single-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V Enclosure 300 V degree of protection NEMA rating of the enclosure 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 connection for supply voltage line-side Screw-type terminals tightening torque [lbFin] for supply 35 35 lbFin type of electrical connection for to supply maximum 75 °C material of the conductor for supply maximum 75 °C material of the conductor for load-side outgoing feeder 35 35 lbFin tightening torque [lbFin] for load-side outgoing feeder 35 35 lbFin tightening torque [lbFin] for load-side outgoing feeder 35 35 lbFin tightening torque [lbFin] for load-side outgoing feeder 35 35 lbFin tightening torque [lbFin] for load-side outgoing feeder 35 35 lbFin tightening torque [lbFin] for load-side outgoing feeder 35 35 lbFin tightening torque [lbFin] for load-side outgoing feeder 35 35 lbFin tightening		5A@600VAC (B600), 1A@250VDC (R300)
with single-phase operation at AC rated value with multi-phase operation at AC rated value 300 V Enclosure degree of protection NEMA rating of the enclosure design of the housing indoors, usable on a general basis Mounting/wiring mounting position fastening method Surface mounting and installation type of electrical connection for supply voltage line-side if ghtening torque [lbf-in] for supply 35 35 lbf-in twp of connectable conductor cross-sections at line-side temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection of magnet coil type of connectable conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection of magnet coil type of electrical connection of magnet coil type of connectable conductor for load-side outgoing feeder		
with multi-phase operation at AC rated value 300 V Enclosure degree of protection NEMA rating of the enclosure indoors, usable on a general basis Mounting/wiring mounting position fastening method Surface mounting and installation type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible mounting for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder type of electrical connection of magnet coil type of connectable conductor for ses-sections at AWG table for in type of electrical connection of magnet coil type of electrical connection of magnet coil type of electrical connection of magnet coil type of connectable conductor for load-side outgoing f	• with single-phase operation at AC rated value	600 V
Enclosure degree of protection NEMA rating of the enclosure NEMA 1 enclosure 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 connection for supply voltage line-side Screw-type terminals tightening torque [lbf-in] for supply 35 35 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 AL or CU type of electrical connection for load-side outgoing feeder 35 35 lbf-in type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder 35 35 lbf-in type of connectable conductor for load-side outgoing feeder 1x (14 2 AWG) temperature of the conductor for load-side outgoing feeder 35 35 lbf-in type of electrical connection for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing f		
degree of protection NEMA rating of the enclosure design of the housingNEMA 1 enclosure indoors, usable on a general basisMounting/wiringindoors, usable on a general basismounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [lbf·in] for supply35 35 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 load-side outgoing feeder35 35 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder35 35 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 °Ctype of connectable conductor ross-sections at AWG cables for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °Cmaximum permissibleAL or CUmaterial 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 feeder75 °Cmat	· · · ·	
design of the housing indoors, usable on a general basis Mounting/wiring mounting position fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Screw-type terminals tightening torque [lbf-in] for supply 35 35 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 35 35 lbf-in type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder 35 35 lbf-in type of connectable conductor for load-side outgoing feeder 35 35 lbf-in type of connectable conductor for load-side outgoing feeder 35 35 lbf-in type of connectable conductor for load-side outgoing feeder 35 35 lbf-in type of connectable conductor for load-side outgoing feeder 35 35 lbf-in type of electrical connection of load-side outgoing feeder 1x (14 2 AWG) temperature of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 1x (14 2 AWG) type of electrical connection of magnet coil 5 12 l		NEMA 1 enclosure
Mounting/wiring 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 35 35 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 supply AL or CU type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder 35 35 lbf-in tightening torque [lbf.in] for load-side outgoing feeder 35 35 lbf-in type of connectable conductor for load-side outgoing feeder 35 35 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) temperature of the conductor for load-side outgoing feeder 75 °C maximum permissible 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder<		
mounting positionVerticalfastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [lbf-in] for supply35 35 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 feeder35 35 lbf-intype of connectable conductor for supplyAL or CUtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder35 35 lbf-intype of connectable conductor for load-side outgoing feeder1x (14 2 AWG)type of electrical connection for load-side outgoing feeder1x (14 2 AWG)type of connectable conductor for load-side outgoing feeder75 °Ctype of electrical connection for load-side outgoing feeder1x (14 2 AWG)temperature of the conductor for load-side outgoing feeder1x (14 2 AWG)type of electrical connection of magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet2x (16 12 AWG)	5 5	
fastening methodSurface mounting and installationtype of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [lbf·in] for supply35 35 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 connectable conductor cross-sections at AWG cables for load-side outgoing feeder35 35 lbf·intightening torque [lbf·in] for load-side outgoing feeder35 35 lbf·intype of connectable conductor for load-side outgoing feeder1x (14 2 AWG)type of connectable conductor for load-side outgoing feeder35 35 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 °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 feeder5crew-type terminalstype of electrical connection of magnet coil5crew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2x (16 12 AWG)		Vertical
type of electrical connection for supply voltage line-sideScrew-type terminalstightening torque [lbf·in] for supply35 35 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 feeder35 35 lbf·intightening torque [lbf·in] for load-side outgoing feeder35 35 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 feeder35 35 lbf·intype of electrical 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 feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet tightening torque [lbf·in] at magnet coil5 12 AWG)		
tightening torque [lbf-in] for supply35 35 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 feeder35 35 lbf-intightening torque [lbf-in] for load-side outgoing feeder35 35 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 feeder35 35 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 feeder75 °Cmaximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder75 °Ctemperature of the conductor for load-side outgoing feeder75 °Cmaximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder75 °Ctype of electrical connection of magnet coil5 crew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet2x (16 12 AWG)		
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 feeder tightening torque [lbf·in] for load-side outgoing feederScrew-type terminalstightening torque glob-ing for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder1x (14 2 AWG)temperature 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 feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder stranded75 °Ctemperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet type of connectable conductor cross-sections of magnet2x (16 12 AWG)		
at AWG cables single or multi-strandedtemperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyAL or CUtype of electrical connection for load-side outgoing feederScrew-type terminalstightening torque [lbf in] for load-side outgoing feeder35 35 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 feeder side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder maximum permissibleAL or CUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf in] at magnet coil5 12 lbf intype of connectable conductor cross-sections of magnet 2x (16 12 AWG)		
permissibleAL or CUtype of electrical connection for load-side outgoing feederScrew-type terminalstightening torque [lbf·in] for load-side outgoing feeder35 35 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 material of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder type of electrical connection of magnet coilAL or CUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2x (16 12 AWG)	at AWG cables single or multi-stranded	
type of electrical connection for load-side outgoing feederScrew-type terminalstightening torque [lbf·in] for load-side outgoing feeder35 35 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 feeder type of electrical connection of magnet coilAL or CUtype of electrical connection of magnet coil5 12 lbf·intightening torque [lbf·in] at magnet coil2x (16 12 AWG)		75 °C
tightening torque [lbf-in] for load-side outgoing feeder35 35 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 feeder type of electrical connection of magnet coilAL or CUtightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet type of connectable conductor cross-sections of magnet2x (16 12 AWG)	material of the conductor for supply	AL or CU
type 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 feeder type of electrical connection of magnet coilAL or CUtightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet2x (16 12 AWG)	type of electrical connection for load-side outgoing feeder	
cables for load-side outgoing feeder single or multi- stranded75 °Ctemperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf-in] at magnet coil5 12 lbf-intype of connectable conductor cross-sections of magnet2x (16 12 AWG)	tightening torque [lbf·in] for load-side outgoing feeder	35 35 lbf·in
maximum permissible material of the conductor for load-side outgoing feeder 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)	cables for load-side outgoing feeder single or multi-	1x (14 2 AWG)
material of the conductor for load-side outgoing feederAL or CUtype of electrical connection of magnet coilScrew-type terminalstightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2x (16 12 AWG)		75 °C
type of electrical connection of magnet coilScrew-type terminalstightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2x (16 12 AWG)		AL or CU
tightening torque [lbf·in] at magnet coil5 12 lbf·intype of connectable conductor cross-sections of magnet2x (16 12 AWG)		Screw-type terminals
type of connectable conductor cross-sections of magnet 2x (16 12 AWG)		
	type of connectable conductor cross-sections of magnet	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 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, Broch	ures,)	
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:83DUC95BH		
Service&Support (Manuals, Certificates, Characteristics, FAQs,)		
at 600 V certificate of suitability Further information Industrial Controls - Product Overview (Catalogs, Broche www.usa.siemens.com/iccatalog Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/produc Service&Support (Manuals, Certificates, Characteristics, https://support.industry.siemens.com/cs/US/en/ps/US2:83DU	10 kA NEMA ICS 2; UL 508; CSA 22.2, No.14 ures,) t?mlfb=US2:83DUC95BH , FAQs,)	

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:83DUC95BH&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:83DUC95BH/certificate



CONDUITS TYP. TOP & BOTTOM

LETTER	CONDUIT SIZE
A	ø12.7 DIA. CONDUIT
В	ø12.7 & ø19 DIA. CONDUIT
С	ø31.8 & ø38.1 DIA. CONDUIT

last modified:

1/25/2022 🖸