SIEMENS

Data sheet

US2:83CUC920F



Duplex starter w/ alternator, Size 0, Three phase full voltage, Solid-state overload relay, OLR amp range 3-12A, 110V 50Hz / 120V 60Hz coil, Non-combination type, Enclosure NEMA type 12, Dust/drip proof for indoors

| Figures | imilar |
|---------|--------|
|---------|--------|

| 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 0 |
| 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 | 18 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 | |

| • at AC at 80 kr zated value • 10 10 V • at AC at 80 kr zated value • 10 10 V • at AC at 80 kr zated value • 10 10 V • at AC at 80 kr zated value • 10 10 V • at AC at 80 kr zated value • 10 10 V • at AC at 80 kr zated value • 10 10 V • 20 kr • 25 VA • 0 perenting range factor control supply voltage rated value • 0 20 ms | | 0 0)// |
|---|---|---|
| • Al AC at 60 Hz rates value 120. 120 V bidding power of magnet coil at AC 248 VA apparent pick-up power of magnet coil at AC 248 VA apparent holding power of magnet coil at AC 248 VA apparent holding power of magnet coil at AC 248 VA apparent holding power of magnet coil at AC 258 VA apparent holding power of magnet coil at AC 258 VA Order Hall Sector control supply voltage rates value 50 % Order Hall Sector control supply voltage rates value 50 % Order Hall Sector control supply voltage rates value 50 % Overhaad rates 19 28 ms Overhaad protection Yes • external reset Yes • external reset Yes reset function Yes reset funct | at DC rated value | 0 0 V |
| India gover at AC manual 8.6 W apparent holding power of magnet coil at AC 25 VA apparent holding power of magnet coil at AC 25 VA operating range factor control supply voltage rated value 0.6511 of magnet coil 0.929 ms OPF-daty time 1929 ms OPF-daty time 1929 ms OPF-daty time 1924 ms Overload protection Yes • asymmetry detection Yes • asymmetry detection Yes • asymmetry detection Yes • east function Ye | | |
| appending arrow part coll at AC 248 VA appending arrow part coll at AC 25 VA appending arrow part coll at AC 25 VA percent part coll at AC 26 VA percent part coll at AC 26 VA Chet-day time 10 24 ms Overload protection Yes • asymmetry detection Yes • asymmetry detection Yes • asymmetry detection Yes • asymmetry detection Yes • adjustable current response value current of the current- dependent croded protection (Yes 2 12 A reset function Yes product feature protective coating on printed circuit board number of NC contacts of auxiliary contacts of overload feature 3 12 A percent at any contacts of overload feature 5 A • at Ca 1600 V 1 relative repeat accuracy 1% product feature protection Reside of overload relay 3.6 | | |
| apparent holding power of magnet coil at AC 25 VA operating range foctor control supply voltage rated value of magnet coil 0.85 1.1 operating range foctor control supply voltage rated value of magnet coil 0.85 1.1 Overload forber 10 20 ms OFF-delay time 10 20 ms Overload rates 10 20 ms Overload protection Yes • ayaymmetry detection Yes • ayaymetry detection Yes • ayarmetry detection Yes • esteral reset Yes • esteral reset Yes • esteral reset Yes repart function Yes • esteral reset Yes • esteral reset Yes • esteral reset Yes reduct base modulum 3 s relative repart accuracy 1 % product fastare accuracy 1 % reduct asset overload relay opticat rating of auxilary contacts of overload 1 repart of NO contacts of auxilary contacts of overload 1 relative reparation at AC rated value | | |
| appereining range factor control supply voltage rated value of magnet coll 0.85 1.1 0.85 1.1 percental drop-out voltage of magnet coll related to the input voltage 50 % 50 % CM-delay time 10 24 ms 000000000000000000000000000000000000 | | |
| af magnét coil 50 % prochat dorpout voltage of magnet coil related to the injut/ voltage 50 % OH-delay time 10 24 ms Overload relay product function • overload protection Yes • agymmetry detection Yes • agymetry detection Yes • agymetry detection Yes • agumetry detection Yes • adtimate detection Yes • adtimate detection Yes • adtimate detection Yes • adtimate detection Yes • adternal reset Yes reset function Yes reset function 3 12 A dependent civeriad relaxed 3 12 A opportatinal contracts of availage contacts of | | |
| input voltage 1929 ms OF-Folday time 1024 ms Overload roles product function • overload protection Yes • phase failure detection Yes • asymmetry detection Yes • ground failure 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 overoldar felaes 3 s. • relative regreat accuracy 1 % product feature protective coating on printed-circuit board 1 relative regreat accuracy 1 % product feature protective coating on printed-circuit board 1 • at DC at 250 V 5 A • at DC at 250 V 5 A • at DC at 250 V 5 A • with single-phase operation at AC rated value 600 V • with single-phase operation at AC rated value 5 A feature 1 relative regreated connection for supply voltage line-side Strafee mounting and installation | | 0.85 1.1 |
| OPE-delay time 10 24 ms Overload relay Product function • overload protection Yes • phase failure detection Yes • asymmetry detection Yes • asymmetry detection Yes • external reset Yes • external reset Yes reset function Manual, automatic and remote adjustable current response value current of the current-dependent overload release 3 s relative repeat accuracy 1 % product feature protective coding on printed-circuit board Yes number of NC contacts of auxiliary contacts of overload relay 5 Å eat DC at 250 V 5 Å • at DC at 250 V 5 Å • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 5 MQe00VAC (B600), 1A@250VDC (R300) • with multi-phase operation at AC rated value 5 MQE00VAC (B600), 1A@250VDC (R300) • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 5 MQE00VAC (B600), 1A@250VDC (R300) • degree of protection NEMA rating of the enclosure 4 daytor and drip-proof for indoor use <td< td=""><td></td><td>50 %</td></td<> | | 50 % |
| Overload rolay product function • overload protection • phase failure detection • asymmetry detection • external reset • external reset reset function | ON-delay time | 19 29 ms |
| product function Yes • overload protection Yes • phase failure detection Yes • asymmetry detection Yes • external reset Yes • external reset Yes • external reset Yes • external reset Yes reset function Xes adjustable current response value current of the current- dependent overload release 3 :s relative represensa accuracy 1 3:6 product feature protective coating on printed-circuit board Yes rumber of NC contacts of auxiliary contacts of overload 1 relative represensa 1 relative represensa 1 relative represensa 5 A • at DC at 250 V 1 A contact rating or auxiliary contacts of overload relay 5 A • at DC at 250 V 1 A insultation vortage (Ui) • with single-phase operation at AC rated value 600 V • with mult-phase operation at AC rated value 500 V • at DC at 250 V 1 A fastering method Surdace mounting and installatio | OFF-delay time | 10 24 ms |
| • overload protection Yes • phase failure detection Yes asymmetry detection Yes ground fault detection Yes ves outfor fault detection Yes ves ves vestemal reset Yes ves ves vestemal reset Yes ves ves | Overload relay | |
| | product function | |
| | overload protection | Yes |
| | phase failure detection | Yes |
| • test function • test function • external reset • external reset • external reset • external reset • Yes • external reset • Annual, automatic and remote 3 12 A • Annual, automatic and remote 3 12 A • Itipping time at phase-loss maximum 3 s • relative repeat accuracy 1 % • product feature protective coating on printed-circuit board ves rumber of NC contacts of auxiliary contacts of overload relay • end NC contacts of auxiliary contacts of overload relay • end NC contacts of auxiliary contacts of overload relay • end NC contacts of auxiliary contacts of overload relay • end NC at 100 V • at DC at 250 V 5 A • at DC at 250 V 5 A • at DC at 250 V • at DC at 250 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V • endosure design of the housing dustproof and drip-proof for indoor use Mounting/wiring mounting position Vertical fastening method Yyep of electrical connection for supply voltage time-side tiphening torque [bf/in] for supply Yer of contactable conductor for supply maximum persistue the conductor for supply maximum persistue the conductor for load-side outgoing feeder Yoe of contactable conductor for load-side outgoing feeder Yoe of electrical connection for load-side outgoing feeder Yoe of electrical connection for load-side outgoing feeder Yoe of contactable conductor for load-side outgoing feeder Yoe of electrical connection for load-side outgoing feeder Yoe of contactable conduc | asymmetry detection | Yes |
| • external reset Yes reset function Manual, automatic and remote adjustable current response value current of the current- dependent overload release 312 A itripping time a 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 1 • at AC at 600 V 5 A • at AC at 800 V 5 A • at DC at 250 V 1 A onotact rating of auxiliary contacts of overload relay according to UL 5A(@600VAC (B600), 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 5u/tocal # Contacts of protection NEMA rating of the enclosure NEMA 12 enclosure degree of protection NEMA rating of the enclosure Neutring/wiring mounting position Vertical Surface mounting and installation Ype of electrical connection for supply voltage line-side 20 20 librin | ground fault detection | Yes |
| reset function Manual, automatic and remote adjustable current response value current of the current- dependent vertoridar release 3 12 A tripping time at phase-loss maximum 3 s relative repeat accuracy 1 % product feature protective coating on printed-circuit board 1 % number of NC contacts of auxiliary contacts of overload 1 relay ent 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 insultator voltage (UI) 600 V insultator voltage (UI) 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 Mounting/wiring Surface mounting and installation Mounting/wiring Surface mounting and installation Type of electrical connection for supply voltage line-side Srew-type terminals type of concetable conductor for supply 20 20 lif-in Type of electrical connection for load-side outgoing feeder 20 20 lif-in Type of electrical connection for load-side outgoing feeder | 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 5 A • at AC at 600 V 5 A • at AC at 600 V 5 A onstart finglie-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 NEMA 12 enclosure design of the housing dustproof and drip-proof for indoor use Mounting voition Surface mounting and installation type of electrical connection for supply voltage line-side 20 20 lof-in type of electrical connection for supply maximum permissible 75 °C material of the conductor for load-side outgoing feeder 20 20 lof-in type of electrical connectain for load-side outgoing feeder 20 20 lof-in type of electrical connectain for load-side outgoing feeder 25 °C t | external reset | Yes |
| dependent overload release 3 s 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 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 5A@@000VAC (B600), 1A@250VDC (R300) insulation voitage (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 degree of protection NEMA rating of the enclosure degree of protection for supply voitage line-side Surface mounting and installation Type of electrical connection for supply voitage line-side Sterw-type terminals tightening torque [IbFin] for supply 20 20 IbFin type of electrical connection for supply maximum 75 °C permissible 75 °C material of the conductor for load-side outgoing feeder | reset function | Manual, automatic and remote |
| tripping time at phase-loss maximum 3 s relative reposet accuracy 1 % product feature protective coating on printed-circuit boat 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 5 A • at AC at 600 V 5 A • at AC at 600 V 1 A contact rating of auxiliary contacts of overload relay according to UL. 5 A insulation voltage (Ui) 600 V • with multi-phase operation at AC rated value 600 V degree of protection NEMA rating of the enclosure Method support of nindoor use Mounting/wring Vertical mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded 75 °C temperature of the conductor for load-side outgoing feeder type of electrical connection for load-side outgoing feeder 75 °C type of electrical connection for load-side outgoing feeder maximum permissible 75 °C temperature of the conductor for load-side outgo | | 3 12 A |
| relative repeal 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 C at 600 V 5 A etal C 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 Mounting/wrining mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side 1x (14 2 AVVG) tightening torque [Ibf-In] for supply AL or CU type of electrical connection for load-side outgoing feeder 2c 20 Ibf-In type of electrical connection for load-side outgoing feeder 2c 20 Ibf-In type of electrical connection for load-side outgoing feeder 2c 20 Ibf-In type of electrical connection for load-side outgoing feeder 2c 20 Ibf-In <t< td=""><td></td><td>3 s</td></t<> | | 3 s |
| 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 5A insulation voltage (U) 600 V • with single-phase operation at AC rated value 600 V egree of protection NEMA rating of the enclosure NEMA 12 enclosure degree of protection NEMA rating of the enclosure NetMA 12 enclosure Mounting/wiring mounting position Type of electrical connection for supply voltage line-side Screw-type terminals tightening torque [Ibf in] for supply 20 20 Ibf in type of electrical connectane for supply maximum permissible 75 °C material of the conductor for load-side outgoing feeder 75 °C type of electrical connectane for load-side outgoing feeder 75 °C type of electrical connectane for load-side outgoing feeder 75 °C type of | | 1% |
| 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 1 contact rating of auxiliary contacts of overload relay according to UL 5 A insulation voltage (U) 5 A • with single-phase operation at AC rated value 600 V • with single-phase operation at AC rated value 600 V • with single-phase operation at AC rated value 600 V • with single-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V Enclosure 600 V design of the housing dustproof and drip-proof for indoor use 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 AL or CU type of electrical connection for supply maximum permissible 75 °C material of the conductor for supply maximum permissible 2020 lbf:in type of electrical connectable conductor cross-sections at AVG cables for load-side outgoing feeder 2020 lbf:in type of electrical connec | | Yes |
| number of NO contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 5 A • at AC at 600 V 5 A • at DC at 250 V 1 A contact ring of auxiliary contacts of overload relay 5 A@600VAC (B600), 1A@250VDC (R300) according to UL 5A@600VAC (B600), 1A@250VDC (R300) insulation voltage (Ui) 600 V • with multi-phase operation at AC rated value 600 V edegree of protection NEMA rating of the enclosure 600 V deegree of protection NEMA rating of the enclosure Vertical mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Screw-type terminals tiphening torque [IbFin] for supply 20 20 IbFin type of electrical connector for supply maximum 75 °C material of the conductor for supply AL or CU type of electrical connection for load-side outgoing feeder 75 °C tightening torque [IbFin] for load-side outgoing feeder 75 °C tightening torque [IbFin] for load-side outgoing feeder 75 °C tightening torque [IbFin] for load-side outgoing feeder 75 | number of NC contacts of auxiliary contacts of overload | 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 (U) • 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 eegre of protection NEMA rating of the enclosure Mexica degree of protection NEMA rating of the enclosure dustproof and drip-proof for indoor use Mounting/wiring Vertical mounting position Vertical fastening method Surface mounting and installation tightening torque [Ibf-II] for supply 20 20 Ibf-In type of electrical connection for supply maximum 75 °C premissible 75 °C material of the conductor for supply maximum 75 °C tightening torque [Ibf-II] for load-side outgoing feeder 1x (14 2 AWG) tightening torque [Ibf-II] for load-side outgoing feeder 1x (14 2 AWG) tightening torque [Ibf-II] for load-side outgoing feeder 1x (14 2 AWG) tightening torque [Ibf-II] for load-side outgoing feeder< | number of NO contacts of auxiliary contacts of overload | 1 |
| • at AC at 600 V 5 A • at DC at 250 V 1 A Contact rating of auxiliary contacts of overload relay according to UL 5A@600VAC (B600), 1A@250VDC (R300) Insulation voltage (Ui) • with single-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 800 V Enclosure degree of protection NEMA rating of the enclosure NEMA 12 enclosure design of the housing dustproof and drip-proof for indoor use Mounting/wiring mounting position Vertical fastening method 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) themperature of the conductor for supply maximum 75 °C C material of the conductor for supply maximum Screw-type terminals tx (14 2 AWG) type of connectable conductor for supply maximum 75 °C C material of the conductor for load-side outgoing feeder 20 20 lbf in tx (14 2 AWG) type of electrical connection for load-si | | |
| • at DC at 250 V 1 Å contact rating of auxiliary contacts of overload relay according to UL 5A@600VAC (B600), 1A@250VDC (R300) insulation voltage (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 design of the housing MEMA 12 enclosure dustproof and drip-proof for indoor use Mounting/wiring | | 5 Δ |
| 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 degree of protection NEMA rating of the enclosure design of the housing NEMA 12 enclosure dustproof and drip-proof for indoor use Mounting/wiring mounting working dustproof and drip-proof for indoor use Mounting/wiring position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded 1x (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 ross-sections at AWG cables for load-side outgoing feeder 20 20 lbrin type of connectable conductor ross-sections at AWG cables 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 type of connectable conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder <t< td=""><td></td><td></td></t<> | | |
| 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 MEMA 12 enclosure design of the housing dustproof and drip-proof for indoor use Mounting/wiring Vertical 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 20 20 lbFin type of connectable conductor for supply maximum 75 °C material of the conductor for load-side outgoing feeder Screw-type terminals tightening torque [lbFin] for load-side outgoing feeder 20 20 lbFin type of electrical connection for Load-side outgoing feeder Screw-type terminals tightening torque [lbFin] for load-side outgoing feeder 20 20 lbFin type of electrical connection for load-side outgoing feeder 20 20 lbFin type of connectable conductor for load-side outgoing feeder 20 20 lbFin tightening torque [lbFin] for load-side outgoing feeder 75 °C temperature of the conductor for load-side outgoing feeder | contact rating of auxiliary contacts of overload relay | |
| 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 dustproof and drip-proof for indoor use Mounting/wiring mounting position fastening method 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) at 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 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 connectable conductor for load-side outgoing feeder type of electrical connection of magnet coi | | |
| with multi-phase operation at AC rated value 300 V Enclosure degree of protection NEMA rating of the enclosure design of the housing Mounting/wiring mounting position fastening method Vertical 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 material of the conductor for load-side outgoing feeder tightening torque [IbF-in] for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder tightening torque [IbF-in] for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder 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 feeder tightening torque [IbF-in] at magnet coil type of connectable conductor cross-sections of magnet 2x (16 12 AWG) | | 600 V |
| Enclosure degree of protection NEMA rating of the enclosure NEMA 12 enclosure design of the housing dustproof and drip-proof for indoor use 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 20 20 lbf-in type of connectable conductor cross-sections at line-side 1x (14 2 AWG) at AWG cables single or multi-stranded Ts °C material of the conductor for supply AL or CU type of electrical connection for load-side outgoing feeder 20 20 lbf-in type of connectable conductor cross-sections at AWG Call Screw-type terminals tightening torque [lbf in] for load-side outgoing feeder 20 20 lbf-in type of connectable conductor for load-side outgoing feeder 20 20 lbf-in type of connectable 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 75 °C material of the conductor for load-side outgoing feeder 75 °C m | | |
| degree of protection NEMA rating of the enclosure NEMA 12 enclosure design of the housing dustproof and drip-proof for indoor use 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 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 ross-sections at AWG cables outgoing feeder 20 20 lbf-in type of connectable conductor ross-sections at AWG cables for load-side outgoing feeder 20 20 lbf-in type of connectable conductor for supply AL or CU type of connectable conductor for load-side outgoing feeder 20 20 lbf-in type of connectable conductor 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 75 °C tightening torque [lbf-in] at magnet coil 5crew-type terminals temperature of the conductor for load-side outgoing | · · | 500 V |
| design of the housing dustproof and drip-proof for indoor use 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 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 20 20 lbf-in type of connectable conductor cross-sections at AWG cables on load-side outgoing feeder 20 20 lbf-in type of connectable conductor for load-side outgoing feeder 20 20 lbf-in type of connectable conductor for load-side outgoing feeder 20 20 lbf-in type of connectable conductor for load-side outgoing feeder 20 20 lbf-in type of connectable conductor for load-side outgoing feeder 20 20 lbf-in tx (14 2 AWG) 1x (14 2 AWG) etemperature 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 1x (14 2 AWG) | | |
| 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 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 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 20 20 lbf-in type of connectable conductor for load-side outgoing feeder 20 20 lbf-in type of connectable conductor for load-side outgoing feeder 20 20 lbf-in type of connectable conductor for load-side outgoing feeder 20 20 lbf-in tx (14 2 AWG) 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 material of the conductor for load-side outgoing feeder 75 °C material of the conductor for load-side outgoing feeder AL or CU <tr< td=""><td></td><td></td></tr<> | | |
| 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 electrical connection for load-side outgoing feeder tightening 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)type of connectable conductor for load-side outgoing feeder1x (14 2 AWG)type of electrical connection for load-side outgoing feeder75 °Ctype of electrical connector 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 °Ctype 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) | | dustproof and drip-proof for indoor use |
| 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 supply maximum permissible75 °Cmaterial of the 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-intightening torque [lbf-in] 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 °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 feeder25 crew-type terminalstightening torque [lbf-in] at 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 electrical connection for supply voltage line-side tightening torque [lbf-in] for supplyScrew-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 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 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 stranded20 20 lbf-intype of electrical connectable 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 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 magnet2x (16 12 AWG) | | |
| 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 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 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 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 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) | | |
| 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 terminalstype of connectable conductor for load-side outgoing feeder tupe of connectable conductor for load-side outgoing feeder20 20 lbf-intwpe 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 feeder stranded75 °Ctemperature 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 maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder maximum permissible75 °Ctype 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 magnet tupe 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 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 feeder solution for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °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) | | |
| permissibleAL 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 material of the conductor for load-side outgoing feeder75 °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 magnet2x (16 12 AWG) | | 1x (14 2 AWG) |
| 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 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) | 1 11 5 | 75 °C |
| tightening 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 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) | 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 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) | type of electrical connection for load-side outgoing feeder | Screw-type terminals |
| 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 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) | | 20 20 lbf·in |
| maximum permissible 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 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 (lcu) | | | |
| • 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 | 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=US2:83CUC920F | | | |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,) | | | |
| https://support.industry.siemens.com/cs/US/en/ps/US2:83CUC920F | | | |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:83CUC920F⟨=en | | | |
| Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:83CL | JC920F/certificate | | |

last modified:

1/25/2022 🖸