SIEMENS

Data sheet

US2:17CUA92WF10



Non-reversing motor starter, Size 0, Three phase full voltage, Solid-state overload relay, OLR amp range 0.25-1A, 110V 50Hz / 120V 60Hz coil, Combination type, 30A fusible disconnect, 30A/250V fuse clip, Encl NEMA type 4X 304 S-Steel, Water/dust tight noncorrosive, Standard width enclosure

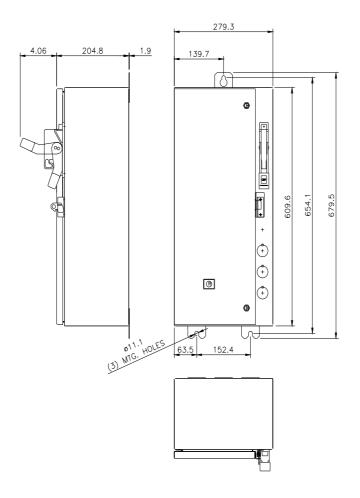
|--|

product brand name	Class 17
design of the product	Non-reversing motor starter with fusible disconnect
special product feature	ESP200 overload relay
General technical data	
weight [lb]	34 lb
Height x Width x Depth [in]	24 × 11 × 8 in
touch protection against electrical shock	NA for enclosed products
installation altitude [ft] at height above sea level maximum	6560 ft
ambient temperature [°F]	
 during storage 	-22 +149 °F
during operation	-4 +104 °F
ambient temperature	
 during storage 	-30 +65 °C
during operation	-20 +40 °C
country of origin	USA
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	0.17 hp
 at 220/230 V rated value 	0.17 hp
• at 460/480 V rated value	0 hp
• at 575/600 V rated value	0 hp
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	

• et AC at 50 Hz rated value 110 V • et AC at 50 Hz rated value 120 V • holding power at AC minimum 8.6 W apparent pick-up power of magnet coil at AC 218 VA apparent holding power of magnet coil at AC 25 VA operating range factor control supply voltage rated value of magnet coll 0.85 1.1 of Magnet coll 50 % ON-delay time 10 24 ms OVerfload rolay 10 24 ms Overload protection Yes • phase failure detection Yes • overload protection Yes • est function Yes • est fu	
holding power at AC minimum 8.6 W apparent pick-up power of magnet coll at AC 218 VA apparent holding power of magnet coll at AC 25 VA operating range factor control supply voltage rated value of magnet coll 0.85 1.1 of magnet coll 0.85 1.1 of magnet coll 0.85 1.1 of magnet coll 0.85 1.1 ON-delay time 19 29 ms OVerload protection Yes • overload protection Yes • ground fault detection Yes • ground fault detection Yes • external reset Yes reset function Manual, automatic and remote trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current- dependent overload release 0.25 1 A product facture protective coating on printed-circuit board relay 1% product facture protective coating on printed-circuit board relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overlo	
apparent pick-up power of magnet coil at AC 218 VA apparent holding power of magnet coil at AC 25 VA operating range factor control supply voltage rated value 0.85 1.1 of magnet coil 0.85 1.1 percental drop-out voltage of magnet coil related to the input voltage. 0.85 1.1 ON-delay time 19 29 ms OV-fold relay 10 24 ms product function Yes • overload protection Yes • ground fault detection Yes • ground fault detection Yes • external reset Yes reset function Manual, automatic and remote trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current- dependent overload release 0.25 1 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 relay 1 operational current of auxiliary contacts of overload relay 1 otacter tring of auxiliary contacts of overload relay according to UL 5A i	
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 percental drop-out voltage of magnet coil related to the input voltage 50 % ON-delay time 19 29 ms OFF-delay time 10 24 ms Overload rolay Yes product function Yes • overload protection Yes • asymmetry detection Yes • asymmetry detection Yes • external reset Yes reset function Yes trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current- dependent overload release 0.25 1 A tripping time at phase-loss maximum 3 s relative repeat accuracy 1 % product facts of auxiliary contacts of overload relay 1 number of NC contacts of auxiliary contacts of overload relay 5 A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay eacording to UL 5A insultion voltage (Ul) 600 V • with single-phase operation at AC rated value • with multi-phase operation at AC rated value	
operating range factor control supply voltage rated value of magnet coll 0.85 1.1 percental forp-out voltage of magnet coll related to the input voltage 50 % ON-delay time 19 29 ms OFF-delay time 10 24 ms Overload rolay Yes product function Yes • overload protection Yes • ground fault detection Yes • ground fault detection Yes • external reset Yes reset function Manual, automatic and remote trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current- dependent overload release 0.25 1 A tripping time at phase-loss maximum 3 s relay 3 s relay 1 % product feature protective coating on printed-circuit board relay 1 % operational current of auxiliary contacts of overload relay 1 Å operational current of auxiliary contacts of overload relay 1 Å operational current of auxiliary contacts of overload relay 5 Å • at DC at 250 V 1 Å contact rating	
of magnet coil 50 % percental drop-out voltage of magnet coil related to the input voltage 50 % ONF-delay time 19 29 ms OFF-delay time 10 24 ms Overload relay 7 product function Yes • overload protection Yes • asymmetry detection Yes • ground fault detection Yes • external reset Yes reset function Manual, automatic and remote trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current-dependent overload relaze 0.25 1 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 relay 1 elay 1 operational current of auxiliary contacts of overload relay 5A etaly 5A insulation voltage (Ui) 600 V etaly 5A etaly 5A etaly 600 V insulation voltage (Ui) </td <td></td>	
input voltage0ON-delay time19 29 msOFF-delay time10 24 ms Overload relay product function• overload protectionYes• phase failure detectionYes• asymmetry detectionYes• ground fault detectionYes• external resetYesreset functionManual, automatic and remotetrip classCLASS 5 / 10 / 20 (factory set) / 30adjustable current response value current of the current- dependent overload releases0.25 1 Atripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit board relay1number of NC contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay1insulation voltage (UI)5 A• with single-phase operation at AC rated value • with single-phase operation at AC rated value600 V• with single-phase operation at AC rated value • with mult-phase operation at AC rated value300 V• Disconnect Switch30A / 250V	
OFF-delay time 10 24 ms Overload relay product function • overload protection Yes • phase failure detection Yes • asymmetry detection Yes • ground fault detection Yes • external reset Yes reset function Manual, automatic and remote trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current-dependent overload release 0.25 1 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 relay 5 A eat AC at 600 V 5 A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5A@@00VAC (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 Disconnect Switch 30A / 250V	
Overload relay product function • overload protection • phase failure detection • asymmetry detection • ground fault detection • ground fault detection • test function • test function • external reset reset function trip class adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay • at DC at 250 V contact rating of auxiliary contacts of overload relay according to UL insulation voltage (Ui) • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value 000 V 300 V	
product function • overload protection Yes • phase failure detection Yes • asymmetry detection Yes • ground fault detection Yes • test function Yes • external reset Yes reset function Yes adjustable current response value current of the current- dependent overload release 0.25 1 A tripping time at phase-loss maximum 3 s relative repeat accuracy 1 % product faultier protective coating on printed-circuit board 1 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 according to UL 5 A insulation voltage (Ui) • with single-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V	
• overload protectionYes• phase failure detectionYes• asymmetry detectionYes• ground fault detectionYes• est functionYes• external resetYesreset functionManual, automatic and remotetrip classCLASS 5 / 10 / 20 (factory set) / 30adjustable current response value current of the current- dependent overload release0.25 1 Atripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit board1number of NC contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay1 Acontact rating of auxiliary contacts of overload relay according to UL5 Ainsulation voltage (Ui)600 V• with single-phase operation at AC rated value • with multi-phase operation at AC rated value600 V• With multi-phase operation at AC rated value • with multi-phase operation at AC rated value300 VDisconnect Switch30A / 250V	
 phase failure detection asymmetry detection ground fault detection ground fault detection ground fault detection ground fault detection Yes external reset external reset reset function CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum 3 s relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay at AC at 600 V at DC at 250 V TA SA@600VAC (B600), 1A@250VDC (R300) according to UL insulation voltage (Ui) with multi-phase operation at AC rated value with multi-phase operation at AC rated value with multi-phase operation at AC rated value 300 V 	
 asymmetry detection ground fault detection ground fault detection test function external reset external reset reset function trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current- dependent overload release tripping time at phase-loss maximum s relative repeat accuracy product feature protective coating on printed-circuit board relay number of NC contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay at AC at 600 V at DC at 250 V Chack at DC at 250 V at DC at 250 V at DC at 250 V at DC at 250 V bisulation voltage (Ui) with single-phase operation at AC rated value with multi-phase operation at AC rated value with multi-phase operation at AC rated value 300 V 	
• ground fault detection Yes • test function Yes • external reset Yes reset function Manual, automatic and remote trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current- dependent overload release 0.25 1 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 relay 1 operational current of auxiliary contacts of overload relay 1 • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5 A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5A@600VAC (B600), 1A@250VDC (R300) • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V	
• test function Yes • external reset Yes reset function Manual, automatic and remote trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current- dependent overload release 0.25 1 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 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 (Ui) 600 V • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V	
• external reset Yes reset function Manual, automatic and remote trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current- dependent overload release 0.25 1 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 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 e at AC at 600 V 5 A e at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay according to UL 5A@600VAC (B600), 1A@250VDC (R300) insulation voltage (Ui) 600 V e with multi-phase operation at AC rated value 300 V Disconnect Switch 30A / 250V	
reset function Manual, automatic and remote trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current- dependent overload release 0.25 1 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 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@600VAC (B600), 1A@250VDC (R300) insulation voltage (Ui) 600 V • with single-phase operation at AC rated value 300 V Disconnect Switch 30A / 250V	
trip classCLASS 5 / 10 / 20 (factory set) / 30adjustable current response value current of the current- dependent overload release0.25 1 Atripping time at phase-loss maximum3 srelative repeat accuracy1 %product feature protective coating on printed-circuit board relayYesnumber of NC contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay • at AC at 600 V5 A• at DC at 250 V1 Acontact rating of auxiliary contacts of overload relay according to UL5A@600VAC (B600), 1A@250VDC (R300)• with single-phase operation at AC rated value • with multi-phase operation at AC rated value600 V• with multi-phase operation at AC rated value300 V Disconnect Switch 30A / 250V	
adjustable current response value current of the current- dependent overload release 0.25 1 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 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@600VAC (B600), 1A@250VDC (R300) • with single-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V	
adjustable current response value current of the current- dependent overload release 0.25 1 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 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 5A@600VAC (B600), 1A@250VDC (R300) insulation voltage (Ui) 600 V • with single-phase operation at AC rated value 300 V Disconnect Switch 30A / 250V	
relative repeat accuracy1 %product feature protective coating on printed-circuit boardYesnumber of NC contacts of auxiliary contacts of overload relay1number of NO contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay • at AC at 600 V5 A• at DC at 250 V1 Acontact rating of auxiliary contacts of overload relay according to UL5A@600VAC (B600), 1A@250VDC (R300)• with single-phase operation at AC rated value • with multi-phase operation at AC rated value600 V• with multi-phase operation at AC rated value • with multi-phase operation at AC rated value300 VDisconnect Switch30A / 250V	
relative repeat accuracy1 %product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relayYesnumber of NO contacts of auxiliary contacts of overload relay1number of NO contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay • at AC at 600 V5 A• at DC at 250 V1 Acontact rating of auxiliary contacts of overload relay according to UL5A@600VAC (B600), 1A@250VDC (R300)• with single-phase operation at AC rated value • with multi-phase operation at AC rated value600 V• with multi-phase operation at AC rated value • with multi-phase operation at AC rated value300 VDisconnect Switch response value of switch disconnector30A / 250V	
product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relayYesnumber of NC contacts of auxiliary contacts of overload relay1number of NO contacts of auxiliary contacts of overload relay1operational current of auxiliary contacts of overload relay • at AC at 600 V5 A• at DC at 250 V1 Acontact rating of auxiliary contacts of overload relay according to UL5A@600VAC (B600), 1A@250VDC (R300)insulation voltage (Ui) • with single-phase operation at AC rated value600 V• with multi-phase operation at AC rated value300 VDisconnect Switch response value of switch disconnector30A / 250V	
number of NC contacts of auxiliary contacts of overload relay 1 number of NO contacts of auxiliary contacts of overload relay 1 operational current of auxiliary contacts of overload relay 1 • at AC at 600 V 5 A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay according to UL 5A@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 Disconnect Switch 30A / 250V	
relay operational current of auxiliary contacts of overload relay • at AC at 600 V 5 A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5A@600VAC (B600), 1A@250VDC (R300) according to UL 5A@600VAC (B600), 1A@250VDC (R300) insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V	
• 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 • with multi-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V Disconnect Switch 30A / 250V	
• 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 • with single-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V Disconnect Switch 30A / 250V	
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 Disconnect Switch 300 A / 250V	
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 Disconnect Switch 300 A / 250V	
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 Disconnect Switch 300 / 250V	
with single-phase operation at AC rated value 600 V with multi-phase operation at AC rated value 300 V Disconnect Switch response value of switch disconnector 30A / 250V	
with multi-phase operation at AC rated value 300 V Disconnect Switch response value of switch disconnector 30A / 250V	
Disconnect Switch response value of switch disconnector 30A / 250V	
response value of switch disconnector 30A / 250V	
design of fuse holder Class R fuse clips	
operating class of the fuse link Class R	
Enclosure	
degree of protection NEMA rating 4X, 304 stainless steel	
design of the housing dustproof, waterproof & resistant to corrosion	
Mounting/wiring	
mounting position vertical	
fastening method Surface mounting and installation	
type of electrical connection for supply voltage line-side Box lug	
tightening torque [lbf·in] for supply 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 75 °C permissible	
material of the conductor for supply AL or CU	
type of electrical connection for load-side outgoing feeder Screw-type terminals	
tightening torque [lbf·in] for load-side outgoing feeder 20 24 lbf·in	
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded 2x (14 10 AWG)	
temperature of the conductor for load-side outgoing feeder 75 °C maximum permissible	

	-	
material of the conductor for load-side outgoing feeder	CU	
type of electrical connection of magnet coil	Screw-type terminals	
tightening torque [lbf·in] at magnet coil	5 12 lbf·in	
type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded	2x (16 12 AWG)	
temperature of the conductor at magnet coil maximum permissible	75 °C	
material of the conductor at magnet coil	CU	
type of electrical connection for auxiliary contacts	Screw-type terminals	
tightening torque [lbf·in] at contactor for auxiliary contacts	10 15 lbf·in	
type of connectable conductor cross-sections at contactor at AWG cables for auxiliary contacts single or multi- stranded	1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	
temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C	
material of the conductor at contactor for auxiliary contacts	CU	
type of electrical connection at overload relay for auxiliary contacts	Screw-type terminals	
tightening torque [lbf⋅in] at overload relay for auxiliary contacts	7 10 lbf·in	
type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi- stranded	2x (20 14 AWG)	
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	75 °C	
material of the conductor at overload relay for auxiliary contacts	CU	
Short-circuit current rating		
design of the fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)	
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14	
Further information		
Industrial Controls - Product Overview (Catalogs, Brochures,) www.usa.siemens.com/iccatalog Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:17CUA92WF10 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/US/en/ps/US2:17CUA92WF10		
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)		

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:17CUA92WF10&lang=en Certificates/approvals https://support.industry.siemens.com/cs/US/en/ps/US2:17CUA92WF10/certificate



last modified:

1/25/2022 🖸