SIEMENS

Data sheet

US2:CLM2D09024



Mechanically held lighting contactor, Contactor amp rating 60Amp 0NC _ 9NO poles, 24VAC 60HZ coil, Non-combination type, Enclosure NEMA type 12, Dust/drip proof for indoors

| product brand name Class CLM design of the product Magnetically latched lighting contactor special product feature Energy efficient, Quiet operation General technical data Energy efficient, Quiet operation weight [b] 20 lb Height x Width x Depth [n] 16 × 13 × 6 in touch protection against electrical shock NA for enclosed products installation altitude [t] at height above sea level maximum 6560 ft control of origin USA Contactor 80 Amp size of contactor for 9 number of NC contacts for main contacts 9 operating voltage for main current circuit at AC at 80 Hz 800 V maximum ft000000 mechanical service life (operating cycles) of the main contacts 0 operating voltage for main contacts of lighting contactor et tungsten (1 pole per 1 phase) rated value et at ungsten (2 poles per 1 phase) rated value 60A @277V 1p 1ph et at ungsten (2 poles per 1 phase) rated value 60A @6000 Xp 1ph et tungsten (2 poles per 1 phase) rated value 60A @6000 Xp 1ph et taresistive load (2 poles per 1 phase) rated value < | 1 | | |
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| special product feature Energy efficient; Quiet operation General technical data | product brand name | Class CLM | |
| General technical data 20 ib Height X Widh X Deph [in] 16 × 13 × 6 in Louch protection against electrical shock NA for enclosed products installation altitude [tt] at height above sea level maximum 6560 ft country of origin USA Contactor 80 Amp number of NC contacts for main contacts 9 number of NC contacts for main contacts 0 operating voltage for main current circuit at AC at 60 Hz 600 V maximum 60A @277V 1p 1ph eat tungsten (2 poles per 1 phase) rated value 60A @277V 1p 1ph eat tungsten (2 poles per 1 phase) rated value 60A @247V 1p 1ph eat tungsten (2 poles per 1 phase) rated value 60A @247V 1p 1ph eat tungsten (2 poles per 1 phase) rated value 60A @247V 1p 1ph eat tungsten (2 poles per 1 phase) rated value 60A @247V 1p 1ph eat tungsten (2 poles per 1 phase) rated value 60A @247V 1p 1ph eat tungsten (2 poles per 1 phase) rated value 60A @2480V 3p 3ph eat tungsten (2 poles per 1 phase) rated value 60A @2600V 3p 3ph eat tungsten (2 poles per 1 phase) rated value 60A @600V 2p 1ph eat tesistive load (2 poles per 1 phase) rated value 60A @600V 3p 3ph <td>design of the product</td> <td>Magnetically latched lighting contactor</td> | design of the product | Magnetically latched lighting contactor | |
| weight [b] 20 lb Height X Widh x Depth [in] 16 × 13 × 6 in fouch protection against electrical shock NA for enclosed products installation altitude [f] at height above sea level maximum 6560 ft contactor 500 Amp size of contacts for main contacts 9 number of NC contacts for main contacts 0 operating voltage for main contacts 0 operating voltage for main contacts of lighting contactor 600 V ext ungsten (1 pole per 1 phase) rated value 60A @277V 1p 1ph et tungsten (2 poles per 1 phase) rated value 60A @480V 2p 1ph et tungsten (2 poles per 1 phase) rated value 60A @480V 2p 1ph et tungsten (2 poles per 1 phase) rated value 60A @4480V 2p 1ph et at ballast (2 poles per 1 phase) rated value 60A @600V 2p 1ph et at ballast (2 poles per 1 phase) rated value 60A @600V 2p 1ph et at esistive load (2 poles per 1 phase) rated value 60A @600V 2p 1ph et are sistive load (2 poles per 1 phase) rated value 60A @600V 2p 1ph et are sistive load (2 poles per 1 phase) rated value 60A @600V 2p 1ph et are sistive load (2 poles per 1 phase) rated value 60A @600V 2p 1ph et are sistive load (2 poles per 1 phase) rated value 60A @600V 2p 1ph et are sistive load (3 poles per 2 phases) rated value 60A @600V 2 | special product feature | Energy efficient; Quiet operation | |
| Height x Widh x Depth [n] 16 × 13 × 6 in touch protection against electrical shock NA for enclosed products installation altivule [ft] at height above sea level maximum 6560 ft contactor 600 Amp number of NC contacts for main contacts 9 number of NC contacts for main contacts 0 operating voltage for main current circuit at AC at 60 Hz 600 V maximum 600 V maximum 600 V reakings ft 2 roles per 1 phase) rated value 600 V e at tungsten (2 polse per 1 phase) rated value 600 Q#80V 2p 1ph e at tungsten (2 polse per 1 phase) rated value 600 Q#80V 2p 1ph e at tungsten (2 polse per 1 phase) rated value 600 Q#80V 2p 1ph e at ballast (1 pole per 1 phase) rated value 600 Q#80V 2p 1ph e at ballast (2 polse per 1 phase) rated value 600 Q#60V 2p 1ph e at ballast (2 polse per 3 phases) rated value 600 Q@60V 2p 1ph e at resistive load (2 polse per 1 phase) rated value 600 Q@600V 2p 1ph e at resistive load (2 polse per 1 phase) rated value 600 Q@600V 2p 1ph e at resistive load (2 polse per 1 phase) rated value 600 Q@600V 2p 1ph e at resistive load (2 polse per 1 phase) rated value | General technical data | | |
| touch protection against electrical shock NA for enclosed products installation altitude [II] at height above sea level maximum 6560 ft country of origin USA Contactor 60 Amp number of NC contacts for main contacts 9 number of NC contacts for main contacts 0 operating voltage for main current circuit at AC at 60 Hz 600 V maximum mechanical service life (operating cycles) of the main contacts typical 10000000 contact rating of the main contacts of lighting contactor 60A @277V 1p 1ph • at tungsten (1 pole per 1 phase) rated value 60A @480V 2p 1ph • at tungsten (2 poles per 1 phase) rated value 60A @247V 1p 1ph • at tungsten (2 poles per 1 phase) rated value 60A @600V 2p 1ph • at ballast (2 poles per 1 phase) rated value 60A @600V 2p 1ph • at ballast (2 poles per 1 phase) rated value 60A @600V 3p 3ph • at resistive load (1 pole per 1 phase) rated value 60A @600V 3p 3ph • at resistive load (2 poles per 1 phase) rated value 60A @600V 3p 3ph • at resistive load (2 poles per 1 phase) rated value 60A @600V 3p 3ph • at resistive load (2 poles per 1 phase) rated | weight [lb] | 20 lb | |
| Installation altitude [ft] at height above sea level maximum 6560 ft contractor USA Contractor 60 Amp number of NO contacts for main contacts 9 number of NC contacts for main contacts 0 operating voltage for main current circuit at AC at 60 Hz 600 V maximum 600 V machanical service life (operating cycles) of the main contacts 10000000 typical 10000000 e at tungsten (1 pole per 1 phase) rated value 60A @277V 1p 1ph e at tungsten (2 poles per 1 phase) rated value 60A @2480V 2p 1ph e at tungsten (2 poles per 1 phase) rated value 60A @2480V 3p 3ph e at ballast (2 poles per 1 phase) rated value 60A @2600V 2p 1ph e at ballast (2 poles per 1 phase) rated value 60A @600V 2p 1ph e at ballast (2 poles per 1 phase) rated value 60A @600V 2p 1ph e at ballast (2 poles per 1 phase) rated value 60A @600V 3p 3ph e at ballast (2 poles per 1 phase) rated value 60A @600V 3p 3ph e at resistive load (3 poles per 3 phases) rated value 60A @600V 3p 3ph e at resistive load (3 poles per 3 phases) rated value 60A @600V 3p 3ph Auxtitary contacts 0 0 | Height x Width x Depth [in] | 16 × 13 × 6 in | |
| country of origin USA Contactor 60 Amp size of contacts 9 number of NO contacts for main contacts 9 number of NC contacts for main contacts 0 operating voltage for main current circuit at AC at 60 Hz 600 V maximum 600 A@277V 1p 1ph ext trains of the main contacts of lighting contactor 600 @2677V 1p 1ph ext trains of the main contacts of lighting contactor 600 @480V 2p 1ph ext transten (1 pole per 1 phase) rated value 600 @480V 2p 1ph ext transten (2 poles per 1 phase) rated value 600 @480V 2p 1ph ext transten (2 poles per 1 phase) rated value 600 @600V 2p 1ph ext transten (2 poles per 1 phase) rated value 600 @600V 2p 1ph ext transitive load (1 pole per 1 phase) rated value 600 @600V 2p 1ph ext traistive load (1 pole per 1 phase) rated value 600 @600V 2p 1ph ext traistive load (2 poles per 1 phase) rated value 600 @600V 2p 1ph ext resistive load (2 poles per 3 phases) rated value 600 @600V 3p 3ph ext resistive load (3 poles per 3 phases) rated value 600 @600V 3p 3ph ext resistive load (3 poles per 3 phases) rated value 600 @600V 3p 3ph Auxiliary contacts 0 0 number of NC contacts for auxiliary contacts 0 number of NC contacts for auxilia | touch protection against electrical shock | NA for enclosed products | |
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| size of contactor 60 Amp number of NQ contacts for main contacts 9 number of NC contacts for main contacts 0 operating voltage for main current circuit at AC at 60 Hz 600 V maximum 600 V mechanical service life (operating cycles) of the main contacts 10000000 typical 10000000 contact rating of the main contacts of lighting contactor 60A @277V 1p 1ph e at tungsten (1 pole per 1 phase) rated value 60A @480V 2p 1ph e at tungsten (2 poles per 1 phase) rated value 60A @480V 2p 1ph e at ballast (2 poles per 1 phase) rated value 60A @400V 2p 3ph e at ballast (2 poles per 1 phase) rated value 60A @600V 2p 3ph e at ballast (2 poles per 1 phase) rated value 60A @600V 2p 1ph e at ballast (2 poles per 1 phase) rated value 60A @600V 2p 3ph e at resistive load (1 pole per 1 phase) rated value 60A @600V 2p 1ph e at resistive load (2 poles per 3 phases) rated value 60A @600V 3p 3ph Auxiliary contacts 0 0 number of NC contacts for auxiliary contacts 0 | country of origin | USA | |
| number of NO contacts for main contacts 9 number of NC contacts for main contacts 0 operating voltage for main current circuit at AC at 60 Hz 600 V maximum 600 V mechanical service life (operating cycles) of the main contacts 10000000 typical contact rating of the main contacts of lighting contactor • at tungsten (1 pole per 1 phase) rated value 60A @277V 1p 1ph • at tungsten (2 poles per 1 phase) rated value 60A @480V 2p 1ph • at tungsten (3 poles per 3 phases) rated value 60A @347V 1p 1ph • at ballast (1 pole per 1 phase) rated value 60A @600V 2p 1ph • at ballast (2 poles per 1 phase) rated value 60A @600V 2p 1ph • at ballast (2 poles per 1 phase) rated value 60A @600V 2p 1ph • at resistive load (1 pole per 1 phase) rated value 60A @600V 2p 1ph • at resistive load (2 poles per 1 phase) rated value 60A @600V 2p 1ph • at resistive load (2 poles per 3 phases) rated value 60A @600V 2p 1ph • at resistive load (2 poles per 3 phases) rated value 60A @600V 2p 1ph • at resistive load (2 poles per 3 phases) rated value 60A @600V 2p 1ph • at resistive load (2 poles per 3 phases) rated value 60A @600V 2p 1ph • at resistive lo | Contactor | | |
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| • at tungsten (3 poles per 3 phases) rated value 60A @480V 3p 3ph • at ballast (1 pole per 1 phase) rated value 60A @600V 2p 1ph • at ballast (2 poles per 1 phase) rated value 60A @600V 3p 3ph • at ballast (3 poles per 3 phases) rated value 60A @600V 3p 3ph • at resistive load (1 pole per 1 phase) rated value 60A @600V 2p 1ph • at resistive load (2 poles per 1 phase) rated value 60A @600V 2p 1ph • at resistive load (2 poles per 3 phases) rated value 60A @600V 2p 1ph • at resistive load (3 poles per 3 phases) rated value 60A @600V 3p 3ph Auxiliary contact 60A @600V 3p 3ph number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 number of NO contacts for contact or according to UL NA Coil V type of voltage of the control supply voltage AC control supply voltage AC e at At at 60 Hz rated value 24 V apparent pick-up power of magnet coil at AC 1200 VA apparent holding power of magnet coil at AC 80 VA operating range factor control supply voltage rated value of 0.85 1.1 | at tungsten (1 pole per 1 phase) rated value | 60A @277V 1p 1ph | |
| • at ballast (1 pole per 1 phase) rated value 60A @347V 1p 1ph • at ballast (2 poles per 1 phase) rated value 60A @600V 2p 1ph • at ballast (3 poles per 3 phases) rated value 60A @600V 3p 3ph • at resistive load (1 pole per 1 phase) rated value 60A @600V 2p 1ph • at resistive load (2 poles per 1 phase) rated value 60A @600V 2p 1ph • at resistive load (2 poles per 1 phase) rated value 60A @600V 2p 1ph • at resistive load (3 poles per 3 phases) rated value 60A @600V 3p 3ph Auxiliary contact 60A @600V 3p 3ph number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 number of total auxiliary contacts of contactor according to UL NA Coil V type of voltage of the control supply voltage AC • at AC at 60 Hz rated value 24 V apparent pick-up power of magnet coil at AC 1200 VA apparent holding power of magnet coil at AC 80 VA operanting range factor control supply voltage rated value of 0.85 1.1 | at tungsten (2 poles per 1 phase) rated value | 60A @480V 2p 1ph | |
| at ballast (2 poles per 1 phase) rated value 60A @600V 2p 1ph at ballast (3 poles per 3 phases) rated value 60A @600V 3p 3ph at resistive load (1 pole per 1 phase) rated value 60A @600V 2p 1ph at resistive load (2 poles per 1 phase) rated value 60A @600V 2p 1ph at resistive load (2 poles per 1 phase) rated value 60A @600V 3p 3ph Auxiliary contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum 4 contact rating of auxiliary contacts of contactor according to UL NA Coil type of voltage of the control supply voltage at AC at 60 Hz rated value 24 V apparent pick-up power of magnet coil at AC at AC at 60 Hz rated value 24 V apparent holding power of magnet coil at AC so VA operating range factor control supply voltage rated value of magnet coil | at tungsten (3 poles per 3 phases) rated value | 60A @480V 3p 3ph | |
| • at ballast (3 poles per 3 phases) rated value 60A @600V 3p 3ph • at resistive load (1 pole per 1 phase) rated value 60A @600V 2p 1ph • at resistive load (2 poles per 1 phase) rated value 60A @600V 2p 1ph • at resistive load (3 poles per 3 phases) rated value 60A @600V 3p 3ph Auxiliary contact 60A @600V 3p 3ph number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 number of total auxiliary contacts maximum 4 contact rating of auxiliary contacts of contactor according to UL NA Coil Vpe of voltage of the control supply voltage e at AC at 60 Hz rated value 24 V apparent pick-up power of magnet coil at AC 1200 VA apparent holding power of magnet coil at AC 80 VA operating range factor control supply voltage rated value of magnet coil 0.85 1.1 | at ballast (1 pole per 1 phase) rated value | 60A @347V 1p 1ph | |
| • at resistive load (1 pole per 1 phase) rated value60A @347V 1p 1ph• at resistive load (2 poles per 1 phase) rated value60A @600V 2p 1ph• at resistive load (3 poles per 3 phases) rated value60A @600V 3p 3phAuxiliary contact60A @600V 3p 3phnumber of NC contacts for auxiliary contacts0number of NO contacts for auxiliary contacts0number of total auxiliary contacts maximum4contact rating of auxiliary contacts of contactor according to ULNACoilVAtype of voltage of the control supply voltageACcontrol supply voltage24 V• at AC at 60 Hz rated value24 Vapparent pick-up power of magnet coil at AC1200 VAapparent holding power of magnet coil at AC80 VAoperating range factor control supply voltage rated value of magnet coil0.85 1.1 | at ballast (2 poles per 1 phase) rated value | 60A @600V 2p 1ph | |
| • at resistive load (2 poles per 1 phase) rated value 60A @600V 2p 1ph • at resistive load (3 poles per 3 phases) rated value 60A @600V 3p 3ph Auxiliary contact 60A @600V 3p 3ph number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 number of total auxiliary contacts maximum 4 contact rating of auxiliary contacts of contactor according to UL NA Coil Value type of voltage of the control supply voltage AC control supply voltage 4 • at AC at 60 Hz rated value 24 V apparent pick-up power of magnet coil at AC 1200 VA apparent holding power of magnet coil at AC 80 VA operating range factor control supply voltage rated value of magnet coil 0.85 1.1 | at ballast (3 poles per 3 phases) rated value | 60A @600V 3p 3ph | |
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| Auxiliary contact 0 number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 number of total auxiliary contacts maximum 4 contact rating of auxiliary contacts of contactor according to UL NA Coil NA type of voltage of the control supply voltage AC control supply voltage 24 V apparent pick-up power of magnet coil at AC 1200 VA apparent holding power of magnet coil at AC 80 VA operating range factor control supply voltage rated value of magnet coil 0.85 1.1 | at resistive load (2 poles per 1 phase) rated value | 60A @600V 2p 1ph | |
| number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 number of total auxiliary contacts maximum 4 contact rating of auxiliary contacts of contactor according to UL NA Coil NA type of voltage of the control supply voltage AC control supply voltage 24 V apparent pick-up power of magnet coil at AC 1200 VA apparent holding power of magnet coil at AC 80 VA operating range factor control supply voltage rated value of magnet coil 0.85 1.1 | at resistive load (3 poles per 3 phases) rated value | 60A @600V 3p 3ph | |
| number of NO contacts for auxiliary contacts 0 number of total auxiliary contacts maximum 4 contact rating of auxiliary contacts of contactor according to UL NA Coil NA type of voltage of the control supply voltage AC control supply voltage | Auxiliary contact | | |
| number of total auxiliary contacts maximum 4 contact rating of auxiliary contacts of contactor according to UL NA Coil NA control supply voltage AC control supply voltage AC • at AC at 60 Hz rated value 24 V apparent pick-up power of magnet coil at AC 1200 VA apparent holding power of magnet coil at AC 80 VA operating range factor control supply voltage rated value of magnet coil 0.85 1.1 | number of NC contacts for auxiliary contacts | 0 | |
| contact rating of auxiliary contacts of contactor according to UL NA Coil | number of NO contacts for auxiliary contacts | 0 | |
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| type of voltage of the control supply voltage AC control supply voltage - • at AC at 60 Hz rated value 24 V apparent pick-up power of magnet coil at AC 1200 VA apparent holding power of magnet coil at AC 80 VA operating range factor control supply voltage rated value of magnet coil 0.85 1.1 | contact rating of auxiliary contacts of contactor according to UL | NA | |
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| • at AC at 60 Hz rated value 24 V apparent pick-up power of magnet coil at AC 1200 VA apparent holding power of magnet coil at AC 80 VA operating range factor control supply voltage rated value of magnet coil 0.85 1.1 | type of voltage of the control supply voltage | AC | |
| apparent pick-up power of magnet coil at AC 1200 VA apparent holding power of magnet coil at AC 80 VA operating range factor control supply voltage rated value of magnet coil 0.85 1.1 | control supply voltage | | |
| apparent holding power of magnet coil at AC 80 VA operating range factor control supply voltage rated value of magnet coil 0.85 1.1 | • at AC at 60 Hz rated value | 24 V | |
| operating range factor control supply voltage rated value of 0.85 1.1 | apparent pick-up power of magnet coil at AC | 1200 VA | |
| magnet coil | apparent holding power of magnet coil at AC | 80 VA | |
| Enclosure | | 0.85 1.1 | |
| | 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 | Box lug |
| tightening torque [lbf-in] for supply | 45 50 lbf·in |
| type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded | 1x (14 4 AWG) |
| temperature of the conductor for supply maximum permissible | 75 °C |
| material of the conductor for supply | AL or CU |
| type of electrical connection for load-side outgoing feeder | Box lug |
| tightening torque [lbf-in] for load-side outgoing feeder | 45 50 lbf·in |
| type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded | 1x (14 4 AWG) |
| temperature of the conductor for load-side outgoing feeder maximum permissible | 75 °C |
| material of the conductor for load-side outgoing feeder | AL or CU |
| type of electrical connection of magnet coil | Screw-type terminals |
| tightening torque [lbf·in] at magnet coil | 8 12 lbf·in |
| type of connectable conductor cross-sections of magnet coil for 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 |
| Short-circuit current rating | |
| design of the fuse link for short-circuit protection of the main circuit required | none |
| design of the short-circuit trip | Thermal magnetic circuit breaker |
| maximum short-circuit current breaking capacity (Icu) | |
| • at 240 V | 5 kA |
| • at 480 V | 5 kA |
| • at 600 V | 5 kA |
| certificate of suitability | NEMA ICS 2; UL 508A |
| Further information | |
| Industrial Controls Product Overview (Catalogs Prochures | |

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:CLM2D09024

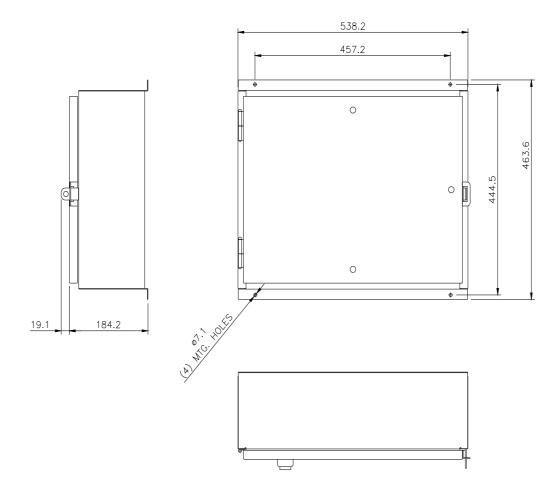
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

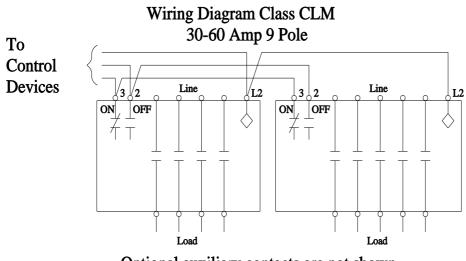
https://support.industry.siemens.com/cs/US/en/ps/US2:CLM2D09024

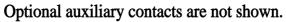
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:CLM2D09024&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:CLM2D09024/certificate







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