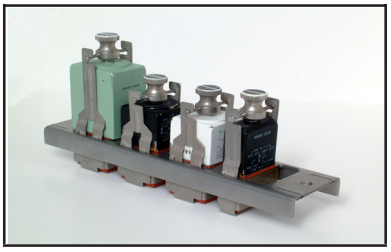
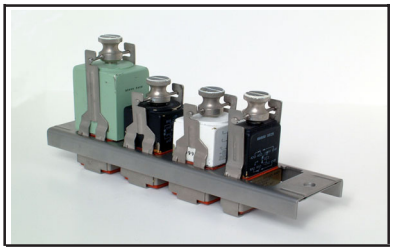
10 / 15 Amp Track Mount Characteristics

A COMPANY OF STPI GROUP





General characteristics

	EL210/EL215	EL410/EL415
No. of poles	2 Form C (2 PDT)	4 Form C (4PDT)
Mass	54.5 grams *[.120 lb. Max]*	90.6 grams *[.20 lb. Max]*

Switching characteristics

Operate time @ 25 (Latch and Reset)	15 ms max.	20 ms max.
Bounce time	1 ms max.	1 ms max.
Mechanical Life	400,000 cycles	

Contact rating

Type of load (High level)	Cycles x 10^3	28 Vdc	115 Vac 400 Hz 1 phase	115 Vac* 50/60 Hz 1 phase	115/200 Vac 400 Hz 3 phase	115/200 Vac* 50/60 Hz 3 phase
Resistive	100	10 amps	10 amps	2.5 amps	10 amps	2.5 amps
Inductive	20	8 amps	8 amps	n/a	8 amps	n/a
Inductive	10	n/a	n/a	2.5 amps	n/a	2.5 amps
Motor	100	4 amps	4 amps	2 amp	4 amps	2 amps
Lamp	100	2 amps	2 amps	1 amps	n/a	n/a
Overload current	n/a	40 amps	60 amps	n/a	60 amps	n/a
Rupture current	n/a	50 amps	80 amps	n/a	80 amps	n/a

10 AMP
* = 10,000 CYCLES

Type of load (High level)	Cycles x 10^3	28 Vdc	115 Vac 400 Hz 1 phase	115 Vac* 50/60 Hz 1 phase	115/200 Vac 400 Hz 3 phase	115/200 Vac* 50/60 Hz 3 phase
Resistive	100	15 amps	15 amps	3.75 amps	15 amps	3.75 amps
Inductive	20	10 amps	10 amps	n/a	10 amps	n/a
Inductive	10	n/a	n/a	3.75 amps	n/a	3.75 amps
Motor	100	6 amps	6 amps	3 amp	6 amps	3 amps
Lamp	100	3 amps	3 amps	1.5 amps	n/a	n/a
Overload current	n/a	40 amps	60 amps	n/a	60 amps	n/a
Rupture current	n/a	50 amps	80 amps	n/a	80 amps	n/a

15 AMP
* = 10,000 CYCLES

Environmental characteristics

Temperature Range	-70°C to +125°C
Vibration (Sinusoidal)	30 g 10-3000 Hz
Shock, any axis	200 g 6 ms
Seal	Hermetic (1 x 10^{-8} atm cm^3/s)

Electrical characteristics

Contact voltage drop (@ Rated resistive load)	
- Initial	150 mV Max.
- After guaranteed life	175 mV Max.

Dielectric strength @ sea level	Coil to Case	All other points
- Initial @ 60 Hz	1050 Vrms	1500 Vrms
- After guaranteed life	1050 Vrms	1250 Vrms

Insulation Resistance	
- Initial	100 Megohms min. @ 500 Vdc
- After life tests	100 Megohms min. @ 500 Vdc
- Max. leakage current	100 Microamp RMS.
Reference Military Specification	MIL-PRF-83536

EL S 2 10 E 4 M D

RELAY TYPE
EL: Latching

OPTIONAL
S: Internal Voltage Suppressor

MODEL
2: 2PDT See page 19,21-23
4: 4PDT See page 19, 24-26

RELAY AMPS
10: 10 AMPS
15: 15 AMPS

COIL CODE
2PDT: SEE PAGE 21
4PDT: SEE PAGE 24

MOUNTING STYLES
2PDT: SEE PAGE 22-23
4PDT: SEE PAGE 25-26

TERMINATION STYLES
2PDT: SEE PAGE 22-23
4PDT: SEE PAGE 25-26

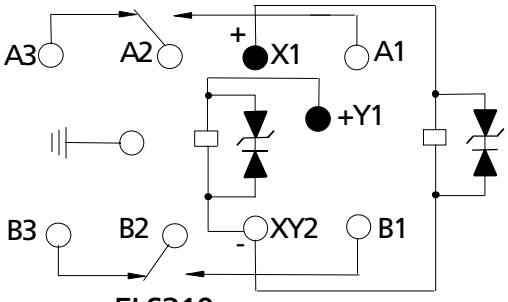
'D' FOR CATALOG STANDARD OR
'A' FOR CATALOG STANDARD WITHOUT ARC BARRIERS
'XXXX' FOR SPECIAL INSTRUCTIONS OR SPECIFICATIONS
(ASSIGNED BY DRI)

Coil characteristics

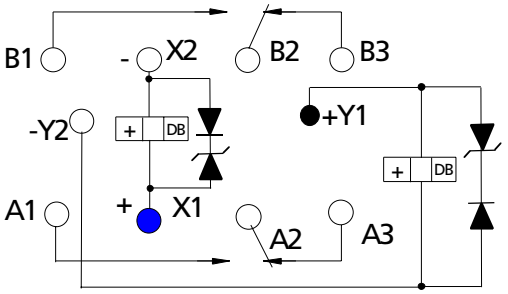
COIL CODE	DC A	B	D	E	G	J
Nominal coil voltage	6	12	26,5	28	48	110
Maximum pick up voltage at 25°C	3	6	13.5	14	24	55
Maximum pick up voltage at 125°C	3,9	7,7	18	18,7	31	70
Minimum drop out voltage at -70° C	2	5	1,2	1,5	2	5
Coil resistance (ohms ±10% at 25°C)	15	60	280	300	1000	5000
Maximum coil transient suppression (where applicable) VDC	See	circuit	diagram	below	100	180

OTHER VOLTAGES AVAILABLE FROM FACTORY ON REQUEST

Circuit diagram

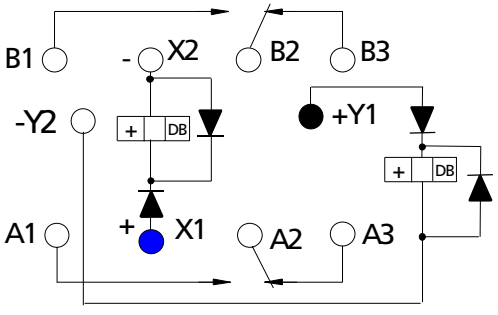


ELS210
LATCHING STYLE RELAY (MTG. STYLE 4-DC ONLY)
Y-COIL LAST ENERGIZED (-42 Vdc MAX.)



Y-COIL LAST ENERGIZED

ELS210/ELS215
LATCHING STYLE RELAY (MTG. STYLE 6-DC ONLY)
OPTIONAL INTERNAL VOLTAGE SUPPRESSOR
(-42 Vdc MAX.)



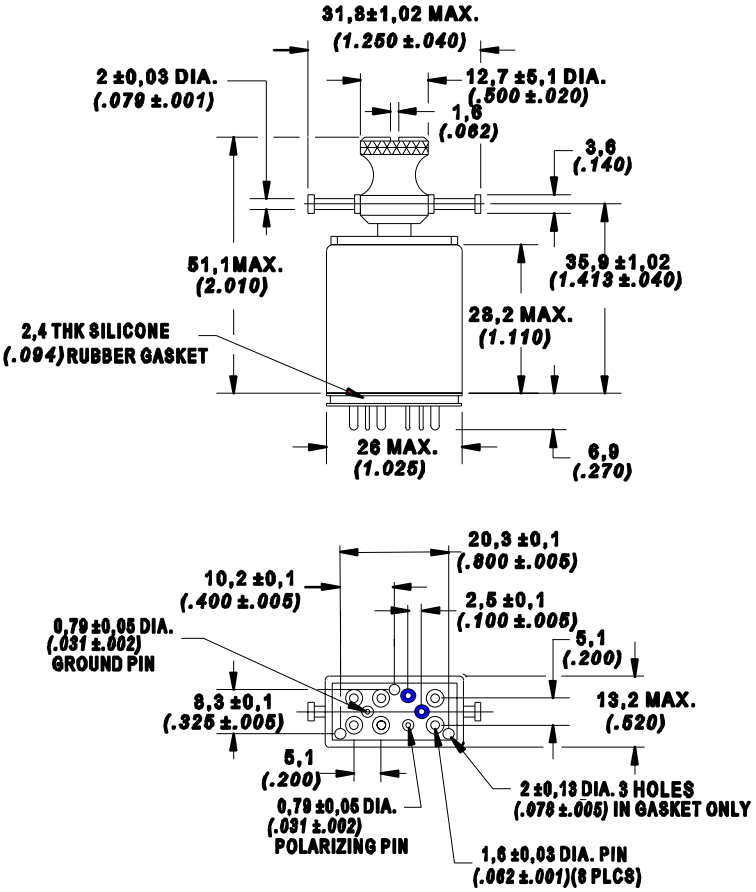
Y-COIL LAST ENERGIZED

ELS210/ELS215
LATCHING STYLE RELAY
(MTG. STYLE 6-DC ONLY)
(-5 Vdc MAX.)

Mounting & Terminal Styles

DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ±0.25 (.010)

THESE TRACK MOUNT RELAYS TO BE USED WITH BRACKET ASSY AND TRACKS MEETING THE REQUIREMENTS OF MIL-PRF-12883. SEE MIL-PRF-12883/50 FOR SOCKET INFORMATION AND MIL-PRF-12883/49 FOR TRACK INFORMATION



MOUNTING STYLE: 4
TERMINAL STYLE: M

[GOLD PLATED HEADER & TERMINALS

Mounting & Terminal Styles

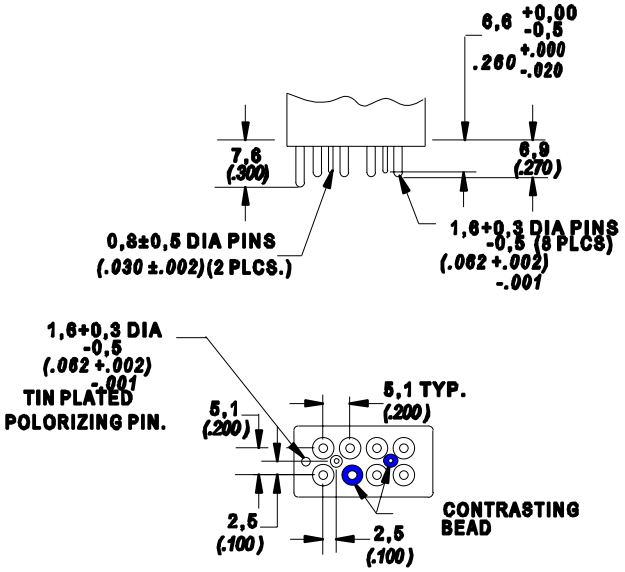
DIMENSIONS IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ±0.25 (.010)

MOUNTING STYLE: 6

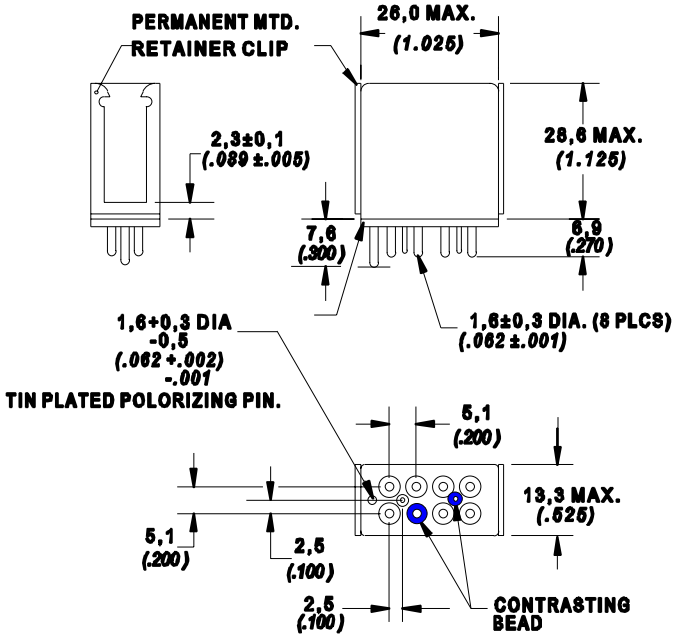
TERMINAL STYLE: M GOLD PLATED TERMINALS WITH TIN PLATED POLARIZING PIN

V TIN PLATED TERMINALS WITH TIN PLATED POLARIZING PIN

STYLE V : SOLDER PIN



STYLE M : PLUG IN



Coil Characteristics

COIL CODE	A	B	D	DC E	G	J
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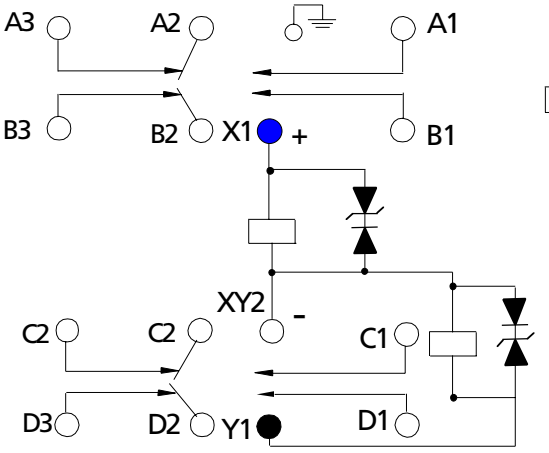
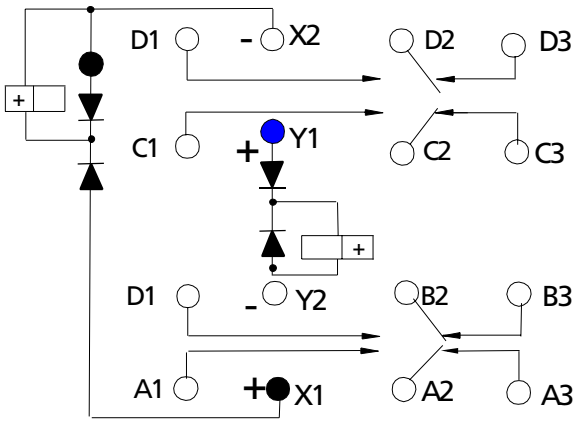
Minimum drop out voltage at -70° C	2	5	1,2	1,5	2	5
Coil resistance (ohms ±10% at 25°C)	15	60	280	300	1000	5000
Maximum coil transient suppression (where applicable)VDC	See	circuit	diagram	below	100	180

OTHER VOLTAGES AVAILABLE FROM FACTORY ON REQUEST

Circuit Diagram

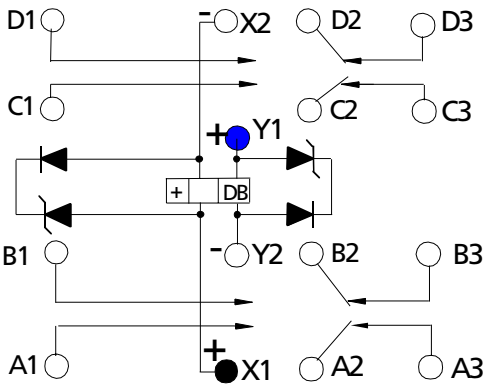


ELS410
LATCHING STYLE RELAY(MTG.STYLE 4-DC ONLY)
Y-COIL LAST ENERGIZED
(-42 Vdc MAX.)



ELR410/ELR415
LATCHING STYLE RELAY(MTG. STYLE6-DC ONLY)
Y-COIL LAST ENERGIZED
(-5 Vdc MAX.)

ELS410/ELS415
LATCHING STYLE RELAY(MTG. STYLE6-DC ONLY)
OPTIONAL INTERNAL VOLTAGE SUPPRESSOR
Y-COIL LAST ENERGIZED
(-42 Vdc MAX.)



Mounting & Terminal Styles

DIMENSIONS ARE IN MM (IN.)
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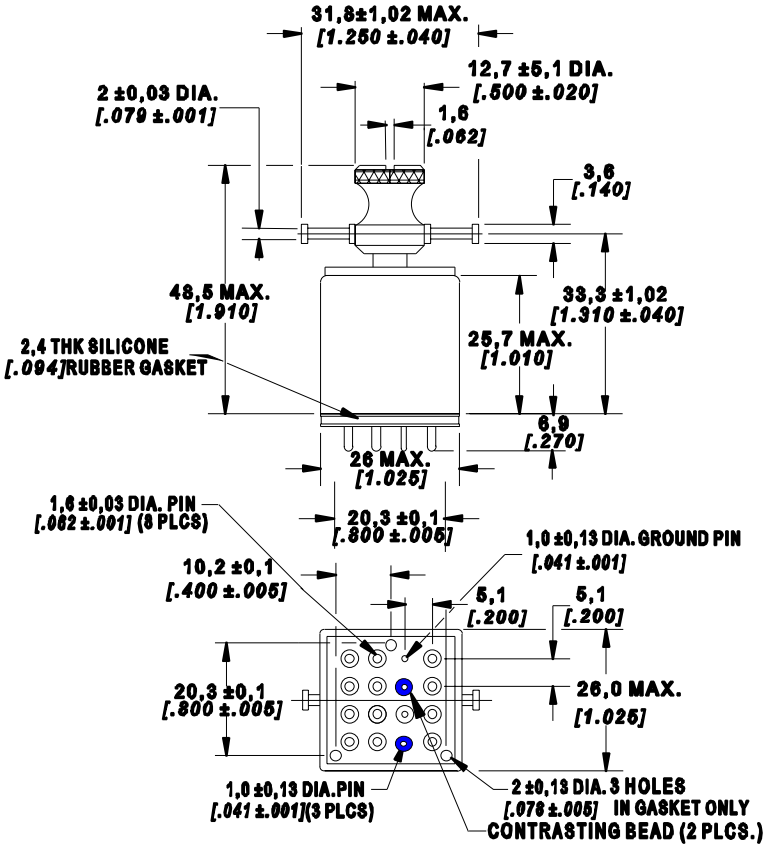
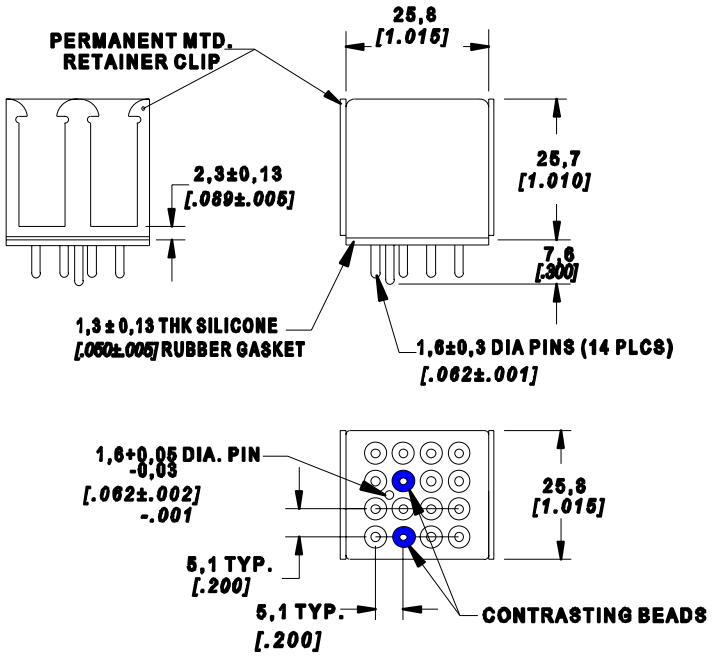


MOUNTING STYLE: 4
TERMINAL STYLE: M
[GOLD PLATED HEADER & TERMINALS (DC)]

Mounting & Terminal Styles

DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ±0.25 (.010)



MOUNTING STYLE: 6

TERMINAL STYLE: C [GOLD PLATED HEADER & TERMINALS (DC)]

M [GOLD PLATED WITH TIN PLATED POLARIZING PIN