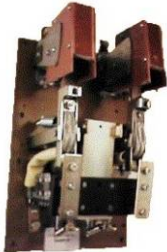




## HEATING AND LIGHTING TYPE: 2T CONTACTOR

A RANGE OF CLAPPER CONTACTORS OFFERING RELIABLE SWITCHING WITH ACCESS TO INSPECT AND MAINTAIN CONTACTS AND COIL. PRIMARILY FOR USE WHERE NORMALLY CLOSED MAIN POLES OR DC LOADS ARE REQUIRED. 250A LOADS AT UP TO 500V AC OR DC.

### FEATURES



- 1 to 4 normally open or normally closed main poles
- Up to 250 Amps resistive and 160 Amps lighting load per pole
- Rectified control circuit for silent operation
- 230V 50/60Hz control voltage as standard
- Integral control circuit protection via H.R.C. fuse link
- Open type or IP42 sheet steel enclosure
- Manufactured to BS EN 60947-4-1

### STANDARD CONTACTOR UNITS

| POLES |     | ENCLOSED TYPE |               |
|-------|-----|---------------|---------------|
| N/O   | N/C | 160A RATING   | 250A RATING   |
| 1     | 0   | 2TSPN160/100E | 2TSPN250/160E |
| 2     | 0   | 2TDP160/100E  | 2TDP250/160E  |
| 3     | 0   | 2TTPN160/100E | 2TTPN250/160E |
| 4     | 0   | 2TFP160/100E  | 2TFP250/160E  |

| POLES |     | ENCLOSED TYPE              |
|-------|-----|----------------------------|
| N/O   | N/C | 250A RATING WITH N/C POLES |
| 0     | 1   | 2T0-1P250/160E             |
| 0     | 2   | 2T0-2P250/160E             |
| 0     | 2   | 2T0-3P250/160E             |
| 0     | 4   | 2T0-4P250/160E             |
| 1     | 1   | 2T1-1P250/160E             |
| 1     | 2   | 2T1-2P250/160E             |
| 2     | 1   | 2T2-1P250/160E             |
| 2     | 2   | 2T2-2P250/160E             |

For Unenclosed units (open type) use the suffix U in place of the E given above.  
A mechanically latched version of these contactors are also available.  
Details on request.

### FACTORY FITTED OPTIONS

#### AUXILIARY CONTACTS

1 or 2 auxiliary blocks with 1 n/o + 1 n/c contacts may be fitted. Add the reference **AUX** plus the number of blocks required.

#### DC LOAD SWITCHING

This is achieved by the use of permanent magnetic blowouts in place of the conventional arc-chutes. Add the option **DCL** to the contactor reference.

#### ALTERNATIVE CONTROL VOLTAGES

Standard units have 230V AC control voltage. Add the option from the list below to the contactor reference

##### AC CONTROL VOLTAGES

| Voltage     | Reference |
|-------------|-----------|
| 12V AC      | 12AC      |
| 24V AC      | 24AC      |
| 50V AC      | 50AC      |
| 110-125V AC | 110AC     |
| 415V AC     | 415AC     |

##### DC CONTROL VOLTAGES

| Voltage     | Reference |
|-------------|-----------|
| 12V DC      | 12DC      |
| 24V DC      | 24DC      |
| 50V DC      | 50DC      |
| 110-125V DC | 110DC     |
| 220-250V DC | 220DC     |

Details on request for control voltages not listed above

### ORDERING EXAMPLE

|   |                       |   |
|---|-----------------------|---|
| Standard Reference  | Factory Fitted Option |   |
| 2T 1-2P 250/160 E   | +DCL +AUX1 +110DC     |   |
| Contactor type _____  | _____                 | Alternative Control Voltage (110-125V DC) |
| Number of main poles _____<br>(1 normally open + 2 normally closed) | _____                 | Auxiliary contacts (1 n/o + 1 n/c)        |
| Main contact rating (250A resistive, 160A lighting)                 | _____                 | DC Load switching                         |
| Enclosure (U for unenclosed type) _____                             |                       |   |

## HEATING AND LIGHTING TYPE: 2T CONTACTOR

### SPECIFICATION

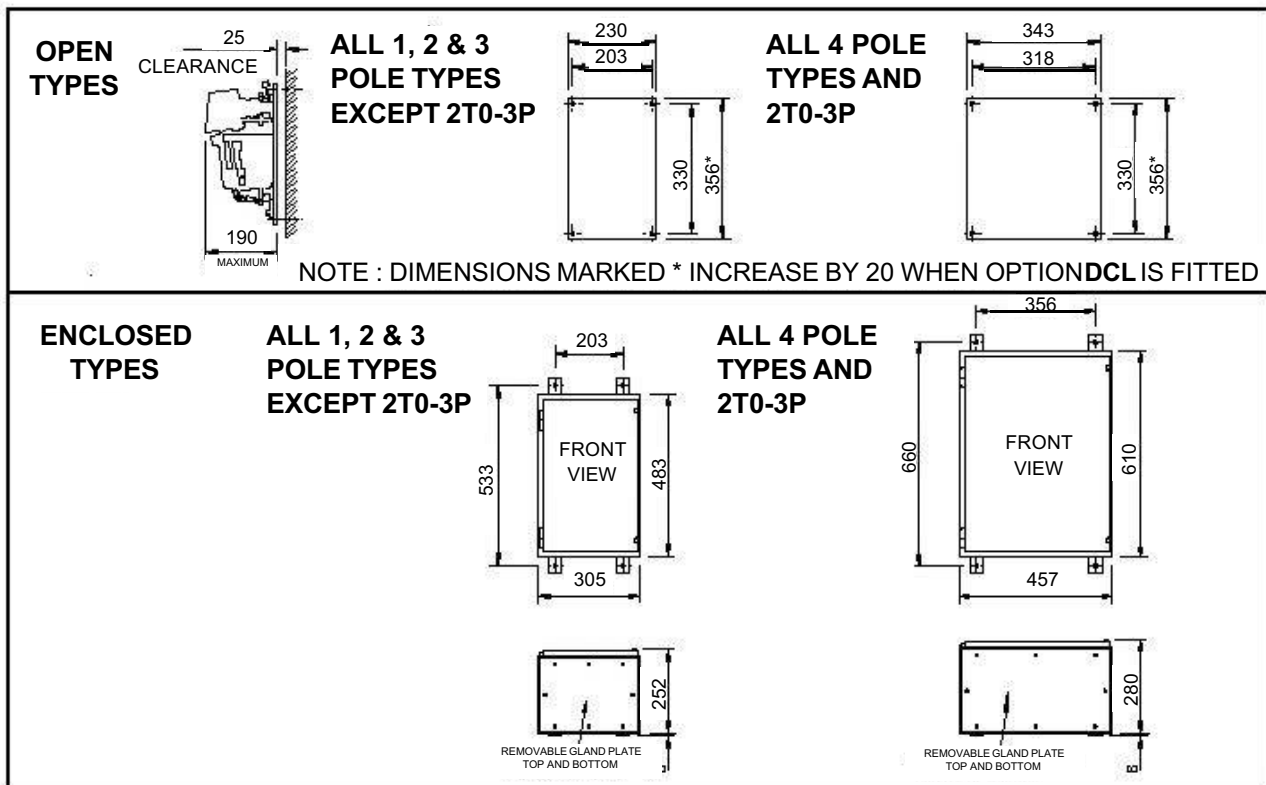
| CONTACT RATING at 500V AC |         |         |
|---------------------------|---------|---------|
| LOAD TYPE                 | 160/100 | 250/160 |
| HEATING (AC1, DC1)        | 160A    | 250A    |
| LIGHTING                  | 100A    | 160A    |
| SODIUM LIGHTING           | 50A     | 80A     |
| MOTOR (AC3, DC3)          | 63A     | 80A     |
| CAPACITOR (AC)            | 63A*    | 100A*   |
| TRANSFORMER (AC)          | 100A*   | 125A*   |

\* Specify DCL for DC & Inductive Loads

| TERMINAL CABLE SIZES |  |
|----------------------|--|
| Control              | 1 x 2.5mm <sup>2</sup>                         |
| Main                 | 19mm Copper Tapped<br>5/16"W (Screws Provided) |

| AUXILIARY CONTACT RATING   |            |           |   |            |
|--|------------|-----------|---|------------|
| UP TO 3 BLOCKS COMPRISING 1 N/O + 1 N/C AVAILABLE AS A FACTORY FITTED OPTION |            |           | 5A at 250V AC<br>2A at 440V DC<br>0.1A at 220V DC |            |
| COIL CONSUMPTION   |            |           |   |            |
| CONTACT RATING   | IN-RUSH    |           | SEALED  |            |
|  | AC         | DC        | AC  | DC         |
| 160A<br>250A   | -<br>120VA | -<br>100W | 34VA<br>57VA                                      | 28W<br>47W |

### OUTLINE DIMENSIONS (mm)



### RELATED PRODUCTS

Enbray has a well established name for reliable electrical load management and manufactures a wide range of load switching devices ranging from miniture pulse operated devices up to 1250A fully automatic changeover systems.

Specific customer requested configurations can be produced which are supplied with all control wiring in place and therefore require the minimum of installation time. These include Safety Contactors, Emergency Changeover Systems, Multipole Contactors, Contactors with normally closed main poles etc. Details available on request.