

# TYPE : 2K CONTACTORS



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 D.C. loads are required. 315A loads at up to 500V A.C. or D.C. can be accommodated.

## FEATURES

- 1 to 4 normally open or normally closed main poles
- Up to 315 Amps resistive and 250 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.
- 2 n/o + 2 n/c auxiliary contacts fitted as standard
- Open type or IP66 sheet steel enclosure
- Manufactured to BS EN 60947-4-1

Alternative A.C or D.C control voltages, D.C load switching and additional auxiliary contacts available as factory fitted options

## STANDARD CONTACTOR UNITS

POLES		ENCLOSED TYPE	POLES		ENCLOSED TYPE
N/O	N/C		N/O	N/C	
1	0	<b>2KSPN315/250E</b>	1	1	<b>2K1-1P315/250E</b>
2	0	<b>2KDP315/250E</b>	1	2	<b>2K1-2P315/250E</b>
3	0	<b>2KTPN315/250E</b>	2	1	<b>2K2-1P315/250E</b>
4	0	<b>2KFP315/250E</b>	2	2	<b>2K2-2P315/250E</b>

For Unenclosed units (open type) use the suffix **U** in place of the **E** given above.

Other main poles arrangements are available on request. Use type 2D for 1-4 n/o poles with A.C. loads.

Note that the normally closed poles are 250A rated. Use type 2T for contactors with only normally closed poles.

## FACTORY FITTED OPTIONS

AUXILIARY CONTACTS
2 auxiliary blocks with 1 n/o + 1 n/c contacts are fitted as standard. Up to 4 more may be fitted. Add the reference <b>AUX</b> plus the number of additional blocks required.
DC LOAD SWITCHING
This is achieved by the use of coil wound blowouts in place of the conventional arcchutes. These are also effective on inductive A.C. loads. Add the option <b>DCL</b> to the contactor reference

ALTERNATIVE CONTROL VOLTAGES			
Standard units have 230V A.C. control voltage. Add the option from the list below to the contactor reference			
A.C. CONTROL VOLTAGES		D.C. CONTROL VOLTAGES	
Voltage	Reference	Voltage	Reference
12V a.c	<b>12AC</b>	12V d.c	<b>12DC</b>
24V a.c	<b>24AC</b>	24V d.c	<b>24DC</b>
50V a.c	<b>50AC</b>	50V d.c	<b>50DC</b>
110-125V a.c	<b>110AC</b>	110-125V d.c	<b>110DC</b>
415V a.c	<b>415AC</b>	220-250V d.c	<b>220DC</b>
Details on request for control voltages not listed above			

## ORDERING EXAMPLE Standard Reference

**2K TPN 315/250 E**

Contactor type \_\_\_\_\_  
 Number of main poles \_\_\_\_\_  
 (Triple pole with fixed neutral)  
 Main contact rating (315A resistive, 250A lighting)  
 Enclosure (U for unenclosed type) \_\_\_\_\_

## Factory Fitted Options

**+DCL +AUX1 +110DC**

\_\_\_\_\_ Alternative Control Voltage  
 (110-125V d.c.)  
 \_\_\_\_\_ Auxiliary contacts  
 (1 n/o + 1 n/c)  
 \_\_\_\_\_ D.C. load switching

## SPECIFICATION

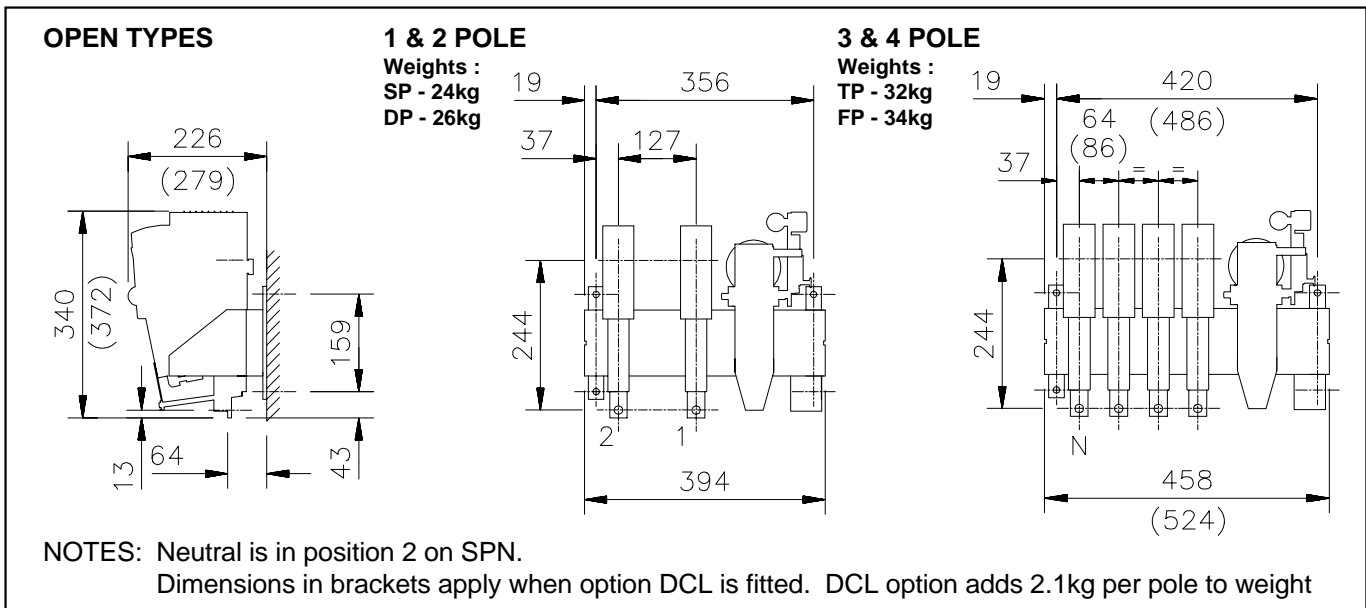
<b>CONTACT RATING at 500V A.C or D.C.</b>		
LOAD TYPE	N/O	N/C
HEATING (AC1, DC1)	315A	250A
LIGHTING	250A	160A
SODIUM LIGHTING	125A	80A
MOTOR (AC3, DC3)	250A	80A
CAPACITOR	250A*	100A*
TRANSFORMER	250A*	125A*

\* SPECIFY DCL FOR D.C. & INDUCTIVE LOADS

<b>TERMINAL CABLE SIZES</b>	
CONTROL	1 or 2 x 2.5mm <sup>2</sup>
MAIN	13.5mm HOLE IN 29mm COPPER

<b>AUXILIARY CONTACT RATING</b>			
2 BLOCKS WITH 1 N/O + 1 N/C FITTED AS STANDARD. UP TO 4 MORE AVAILABLE AS A FACTORY FITTED OPTION		500V A.C. - 5A 250V D.C. - 2.5A resistive, 1.25A with 10ms t.c	
<b>COIL CONSUMPTION</b>			
IN-RUSH		SEALED	
A.C: 165VA	D.C: 150W	A.C: 33VA	D.C: 30W

## OUTLINE DIMENSIONS (mm) ALL FIXINGS SUIT M10 SCREWS



### ENCLOSED TYPES

All enclosed types are fitted in an IP66 enclosure with door.

1 - 4 POLE STANDARD. Dimensions (mm) 600h x 600w x 307d. Weight: add 25.0kg to open type

1 & 2 POLE WITH DCL OPTION. Dimensions (mm) 800h x 600w x 307d. Weight: add 33.6kg to open type

3 & 4 POLE WITH DCL OPTION. Dimensions (mm) 800h x 800w x 307d. Weight: add 42.7kg to open type

## RELATED PRODUCTS

Enbray Contactors has a well established name for reliable electrical load management and manufactures a wide range of load switching devices ranging from miniature 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 on request

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