

# TYPE : 8Y4 CONTACTORS



A range of multipole clapper contactors offering reliable switching with access to inspect and replace contacts and coil. Up to 18 main poles, including normally closed arrangements, for 32A loads at 500V A.C. or D.C. can be accommodated.

## FEATURES

Wide range of normally open and normally closed pole combinations  
 Up to 32 Amps resistive load and 20 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.  
 Neutral terminal on single and triple pole types  
 Open type or IP42 sheet steel enclosures  
 IP66 steel enclosures also available  
 Manufactured to BS EN 60947-4-1



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

## STANDARD CONTACTOR UNITS

POLES		ENCLOSED TYPE
N/O	N/C	
1	0	<b>8Y4SPN32/20E</b>
2	0	<b>8Y4DP32/20E</b>
3	0	<b>8Y4TPN32/20E</b>
4	0	<b>8Y4FP32/20E</b>

POLES		ENCLOSED TYPE
N/O	N/C	
0	1	<b>8Y40-1P32/20E</b>
0	2	<b>8Y40-2P32/20E</b>
0	3	<b>8Y40-3P32/20E</b>
0	4	<b>8Y40-4P32/20E</b>

POLES		ENCLOSED TYPE
N/O	N/C	
1	1	<b>8Y41-1P32/20E</b>
1	2	<b>8Y41-2P32/20E</b>
2	2	<b>8Y42-2P32/20E</b>
5	0	<b>8Y45-0P32/20E</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 to a maximum of 18 poles, 16 of which may be N/C. Mechanically latched versions 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 <b>AUX</b> plus the number of blocks required. Note that there must be at least 1 n/o main pole for each block required.
DC LOAD SWITCHING
This is achieved by the use of permanent magnetic blowouts in place of the conventional arc-chutes. 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

**8Y4 1-2P 32/20 E**

Contactor type \_\_\_\_\_  
 Number of main poles \_\_\_\_\_  
 (1 normally open + 2 normally closed)  
 Main contact rating (32A resistive, 20A lighting) \_\_\_\_\_  
 Enclosure (U for unenclosed type) \_\_\_\_\_

## Factory Fitted Options

**+DCL +AUX1 +110DC**

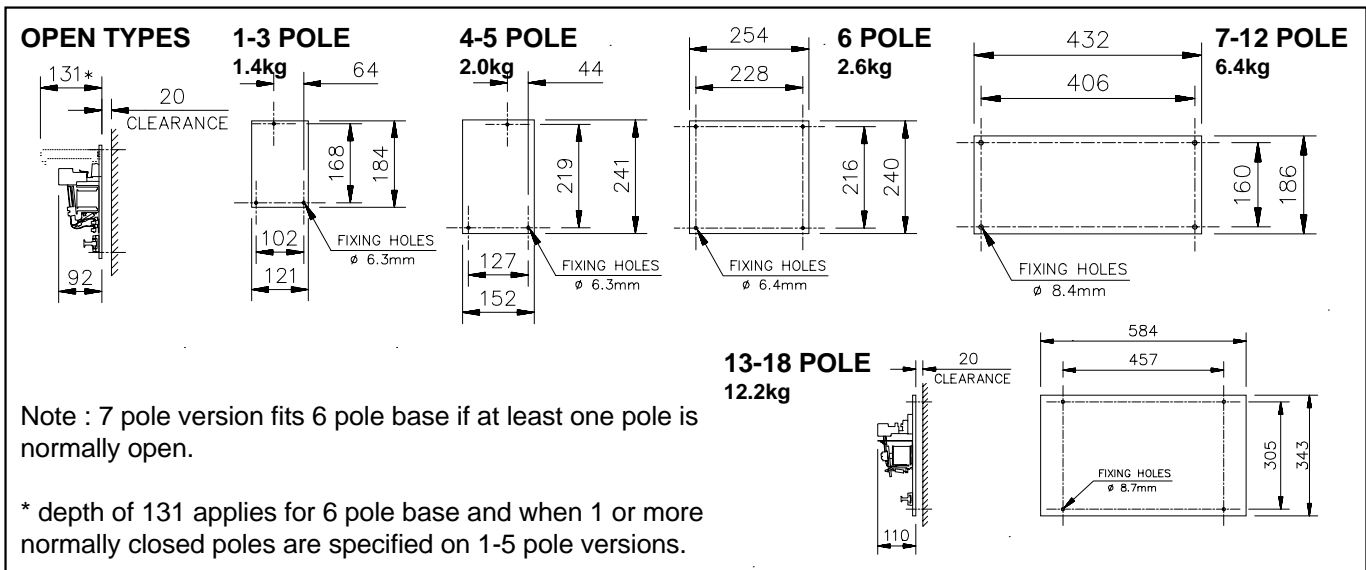
\_\_\_\_\_ Alternative Control Voltage  
 (110-125V d.c.)  
 \_\_\_\_\_ Auxiliary contacts  
 (1 n/o + 1 n/c)  
 \_\_\_\_\_ D.C. load switching

## SPECIFICATION

<b>CONTACT RATING at 500V A.C. or D.C.</b>	
LOAD TYPE	AMPS PER POLE
HEATING (AC1, DC1)	32A
LIGHTING	20A
SODIUM LIGHTING	10A
MOTOR (AC3, DC3)	16A
MOTOR (AC4, DC4)	7A
CAPACITOR (A.C.)	10A
TRANSFORMER (A.C.)	12A

<b>AUXILIARY CONTACT RATING</b>	
1 OR 2 BLOCKS COMPRISING 1 N/O + 1 N/C AVAILABLE AS A FACTORY FITTED OPTION	5A at 250V A.C. 2A at 440V A.C. 0.1A at 220V D.C.
<b>TERMINAL CABLE SIZES</b>	
CONTROL SCREW CLAMP	1 x 2.5mm <sup>2</sup>
MAIN CAGE CLAMP	1 x 25mm <sup>2</sup> or 2 x 10mm <sup>2</sup>
NEUTRAL CAGE CLAMP	2 x 10mm <sup>2</sup>
<b>COIL CONSUMPTION</b>	
1-5 POLE	A.C. 11VA D.C. 8.5W
6 POLE	A.C. 20VA D.C. 16W (44VA 34W In-rush)
7-12 POLE	A.C. 22VA D.C. 17W
13-18 POLE	A.C. 30VA D.C. 25W

## OUTLINE DIMENSIONS (mm)



<p><b>ENCLOSED 1-3 POLE (IP42) Add 1.9kg</b></p> <p>BACK VIEW CABLE KNOCKOUTS BOTH ENDS ALL FIXING HOLES : <math>\phi</math>8.0mm Knockouts are 25 &amp; 38mm dia</p>	<p><b>4-5 POLE (IP42) Add 2.7kg</b></p> <p>BACK VIEW CABLE KNOCKOUTS BOTH ENDS Knockouts are 25 &amp; 38mm dia ALL FIXING HOLES : <math>\phi</math>8.0mm</p>	<p><b>6 POLE</b> has IP66 enclosure with hinged door. Dimensions 300h x 300w x 150d. Add 6.1kg to open type</p> <p><b>7 - 18 POLE</b> has IP66 enclosure with hinged door. Dimensions 400h x 600w x 207d. Add 15.1kg to open type</p> <p><b>1 - 5 POLE</b> also available in IP66 enclosure with hinged door - suffix <b>E66</b>. Dimensions 300h x 200w x 150d. Add 4.5kg to open type</p>
---	--	---

## 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

## ENBRAY - Cooper Bussmann

Burton-on-the-Wolds  
Leicestershire LE12 5TH  
England

Tel: +44 (0) 1509 882600

Fax: +44 (0) 1509 882786

Technical/Application Helpline

Tel: +44 (0) 1900 68173

Fax: +44 (0) 1900 68189



E-mail: [contactors@bussmann.co.uk](mailto:contactors@bussmann.co.uk)

Web: <http://www.enbray.co.uk>