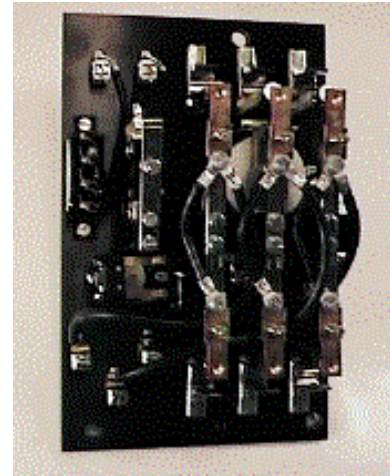


A range of Gravity Changeover Contactors conforming to the requirements of BS764 for emergency lighting. Up to 100A loads and 3,4 or 5 changeover poles can be accommodated

OPERATION & FEATURES

BS764 is specific to 3 pole, enclosed or dust protected changeovers with a main supply of 250V A.C. or less and a D.C. standby supply. Two poles are used for the load (Live and Neutral mains, + and - standby) with the third pole used for an alarm/charging circuit.

Three basic ratings are for 30, 60 and 100A lighting loads. The same contactor designs are available for use with conventional 3 phase mains and standby supplies and offer reliable emergency supply switching in that the changeover contacts ensure that the load is always connected to one of the supplies.



Precise changeover characteristics are defined such that the standby supply will be selected when the main supply falls below 60% of its nominal value and mains will not be reselected until it has recovered to 80%.

STANDARD CONTACTOR UNITS - THREE MAIN POLES

LOAD AMPS	AC MAINS, DC STANDBY			AC MAINS, AC STANDBY		
	ENCLOSED	DUST COVER	OPEN TYPE	ENCLOSED	DUST COVER	OPEN TYPE
30	GCCD30E		GCCD30U	GCCA30E		GCCA30U
60	GCCD60E	GCCD60D	GCCD60U	GCCA60E	GCCA60D	GCCA60U
100	GCCD100E	GCCD100D	GCCD100U	GCCA100E	GCCA100D	GCCA100U

The dust protected variants above are supplied with back stud connections for the main poles making them suitable for panel mounting. All other types are front connected.

For four and five pole variants of the 60A and 100A units, add **4P** or **5P** to the standard ordering reference in the position shown in the ordering example below.

FACTORY FITTED OPTIONS

AUXILIARY CONTACTS	ALTERNATIVE CONTROL VOLTAGES			
An auxiliary block with 1 n/o + 1 n/c contacts can be fitted to the 60 and 100A types. Add the reference AUX1 to the contactor reference	Standard units have 240V A.C. control voltage. Add the option from the list below to the contactor reference.			
	A.C. CONTROL VOLTAGES		D.C. CONTROL VOLTAGES	
DC LOAD SWITCHING	Voltage	Reference	Voltage	Reference
For DC to DC changeovers, add the reference DCL to the contactor reference.	110V a.c	110AC	110V d.c	110DC

ORDERING EXAMPLE Standard Reference

Contactor type _____ **GCC A 4P 60 E**
 Arc shields on standby contacts _____
 (A=AC, D=DC)
 Number of main poles _____
 (4 or 5, no entry for 3 pole)
 Main contact rating (60A lighting) _____
 Enclosure (D for dust protected, U for unenclosed type)

Factory Fitted Options

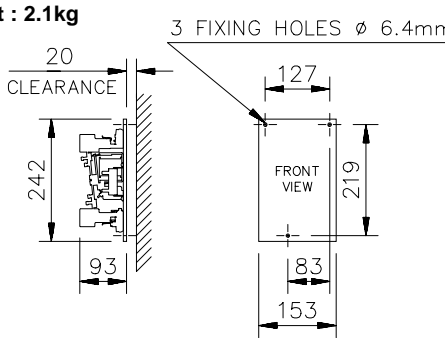
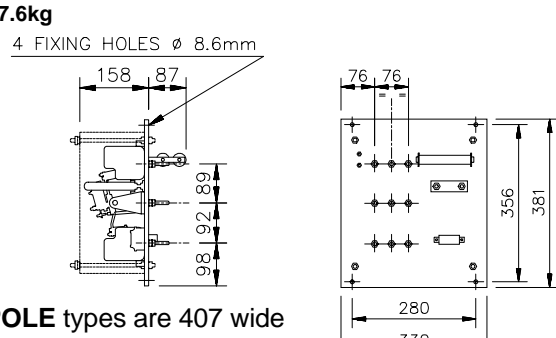
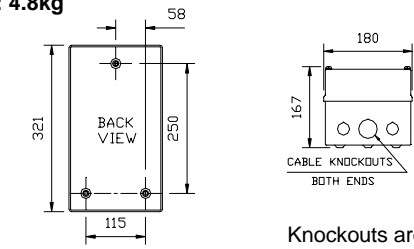
+ AUX1 + 110DC
 _____ Alternative Control Voltage (110V d.c.)
 _____ Auxiliary contacts (1 n/o + 1 n/c)

SPECIFICATION

CONTACT RATING at 500V A.C or D.C.				
LOAD TYPE	GCC30	GCC60	GCC100	
LIGHTING	30A	60A	100A	
HEATING (AC1)	30A	60A	100A	
TRANSFORMER	12A	40A	63A	
COIL CONSUMPTION				
CONTACT RATING	IN-RUSH		SEALED	
	AC	DC	AC	DC
30A	170VA	150W	17VA	15W
60A & 100A	370VA	330W	65VA	60W

AUXILIARY CONTACT RATING		
1 N/O FITTED AS STANDARD. 1 N/O + 1 N/C BLOCK AVAILABLE AS A FACTORY FITTED OPTION	5A at 250V A.C. 2A at 440V A.C. 0.1A at 220V D.C.	
TERMINAL CABLE SIZES		
CONTROL	1 x 2.5mm ²	
MAIN 30A	2 x 16mm ² or 1 x 25mm ²	
MAIN 60 & 100A (Enc)	2 x 16mm ² or 1 x 50mm ²	
MAIN 60 & 100A (Dust)	5/16"W COPPER STUDS	
OPERATING TIMES Typical (at full voltage)		
CONTACT OPERATION	GCC30	GCC60 & 100
STANDBY TO OPEN	40ms	80ms
NORMAL TO CLOSE	55ms	100ms
NORMAL TO OPEN	35ms	40ms
STANDBY TO CLOSE	50ms	55ms

OUTLINE DIMENSIONS (mm)

<p>OPEN TYPE 30A Weight : 2.1kg</p>  <p>3 FIXING HOLES ϕ 6.4mm</p>	<p>OPEN AND DUST PROTECTED 3-POLE 60A & 100A Weight : 7.6kg</p>  <p>4 FIXING HOLES ϕ 8.6mm</p> <p>4 & 5-POLE types are 407 wide and weigh 8.4kg and 9.1kg</p>
<p>ENCLOSED 30A (IP42) Weight : 4.8kg</p>  <p>BACK VIEW</p> <p>CABLE KNOCKOUTS BOTH ENDS</p> <p>Knockouts are 25 & 38mm dia</p>	<p>ENCLOSED 60A & 100A IP66 enclosure with hinged door</p> <p>3 POLE - Dimensions (mm) 600h x 400w x 307d. Weight: add 18.1kg to open type</p> <p>4 & 5 POLE - Dimensions (mm) 600h x 600w x 307d. Weight: add 25.0kg to open type</p> <p>ENCLOSED 30A is alternatively available in IP66 enclosure with hinged door - suffix E66. Dimensions (mm) 400h x 300w x 207d. Weight: 10.7kg</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

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