

ALL
BRITISH
COMPANY

EXTENDED-HUB ELECTROMAGNETIC CLUTCHES

FOR PULLEY, CHAINWHEEL,
SPUR GEAR OR FLEXIBLE COUPLING

DATA
SHEET

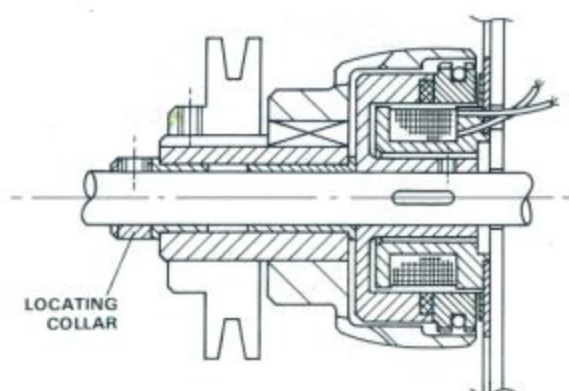
SIZE
S250EH

MAXIMUM STATIC TORQUE 5.6 Nm. 50 lb. ins.

EXTENDED HUB CLUTCHES

Advantages

- Ideal for use where an input or output drive is required to a shaft emerging from a machine side frame or casting.
- Rugged construction for long life.
- Through shaft mounting avoids need to align shafts.
- Offers a facility for use with a pulley or with a flexible coupling for in-line drive.
- Input drive may be to shaft or hub.



SELECTION TABLE

Allowing for 250% torque overloads after Clutch has brought load to full speed.

Motor kW	SHAFT SPEED AT CLUTCH IN R.P.M.																	
	100	200	300	400	500	600	700	800	900	1000	1250	1440	1750	2000	2500	2800	3000	4000
0.015	250	250	250	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
0.037	365	250	250	250	250	250	250	175	175	175	175	175	175	175	175	175	175	175
0.06	400	365	250	250	250	250	250	250	250	250	250	175	175	175	175	175	175	175
0.09	400	400	365	250	250	250	250	250	250	250	250	250	250	175	175	175	175	175
0.12	600	400	365	365	365	250	250	250	250	250	250	250	250	250	250	175	175	175
0.18	600	400	400	400	365	365	365	250	250	250	250	250	250	250	250	250	250	175
0.25	600	600	400	400	400	365	365	365	365	365	250	250	250	250	250	250	250	250
0.37	800	600	600	400	400	400	400	400	365	365	365	365	250	250	250	250	250	250
0.55	800	800	600	600	600	400	400	400	400	400	365	365	365	365	250	250	250	250
0.75		800	600	600	600	600	600	400	400	400	400	400	365	365	365	365	365	250
1.1		800	800	600	600	600	600	600	600	600	400	400	400	400	365	365	365	365
1.5			800	800	800	600	600	600	600	600	600	600	400	400	400	400	400	365
2.2				800	800	800	800	600	600	600	600	600	600	600	400	400	400	400
3.0							800	800	800	800	800	600	600	600	600	600	600	400
5.5											800	800	800	800	600	600	600	600
7.5												800	800	800	800	600	600	600
9.3													800	800	800	800	800	600
11.0														800	800	800	800	800

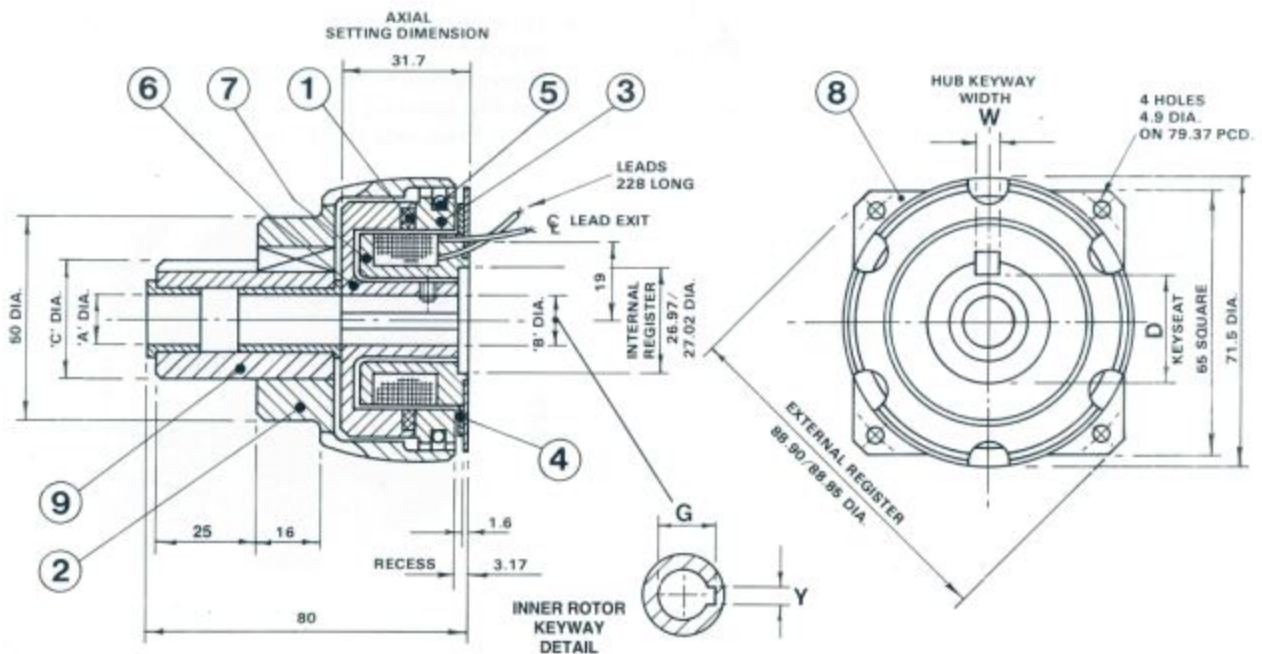
See S250 Clutch Data Sheet for full specification.

DATA SHEET
SIZE S250EH

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Type S250EH (Consult S250 Clutch Data Sheet for details of field spool mounting).



STANDARD BORES, HUB DIAMETERS & KEYWAYS

BEARING BORE A DIA.	B DIA.	INNER ROTOR KEYWAY		HUB DIA. C	HUB KEYWAY	
		Y	G		W	D
3/8"	375"/.376"	.125"/.126"	.435"/.441"	1.0005"/1.0002"	249"/250"	858"/.852"
1/2"	500"/.501"	.125"/.126"	.561"/.567"	1.1255"/1.1252"		.983"/.977"

PARTS LIST

ITEM	PART No.	TITLE
1	484	FRICITION LINING
2	3245	EH OUTER MEMBER
3	491	DRIVE RING
4	566	MAGNETIC INSULATOR
5	734	CUSHION RING
6	479	INNER ROTOR
7	478	FIELD SPOOL
8	483	MOUNTING PLATE
9	3246	EH SLEEVE & BEARING SUB-ASSY.

METRIC SIZES (mm)

BEARING BORE A DIA.	B DIA.	INNER ROTOR KEYWAY		HUB DIA. C	HUB KEYWAY	
		Y	G		W	D
8	8.00/8.03	1.99/2.00	9.03/9.13	25.00/ 24.99	4.00/3.97	22.50/ 22.40
9	9.00/9.03	3.00/3.02	10.43/10.53			
10	10.00/10.03	3.00/3.02	11.43/11.53	28.00/ 27.99		25.50/ 25.40
12	12.00/12.03	4.00/4.02	13.83/13.93			
14	14.00/14.03	5.00/5.02	14.09/15.00			

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