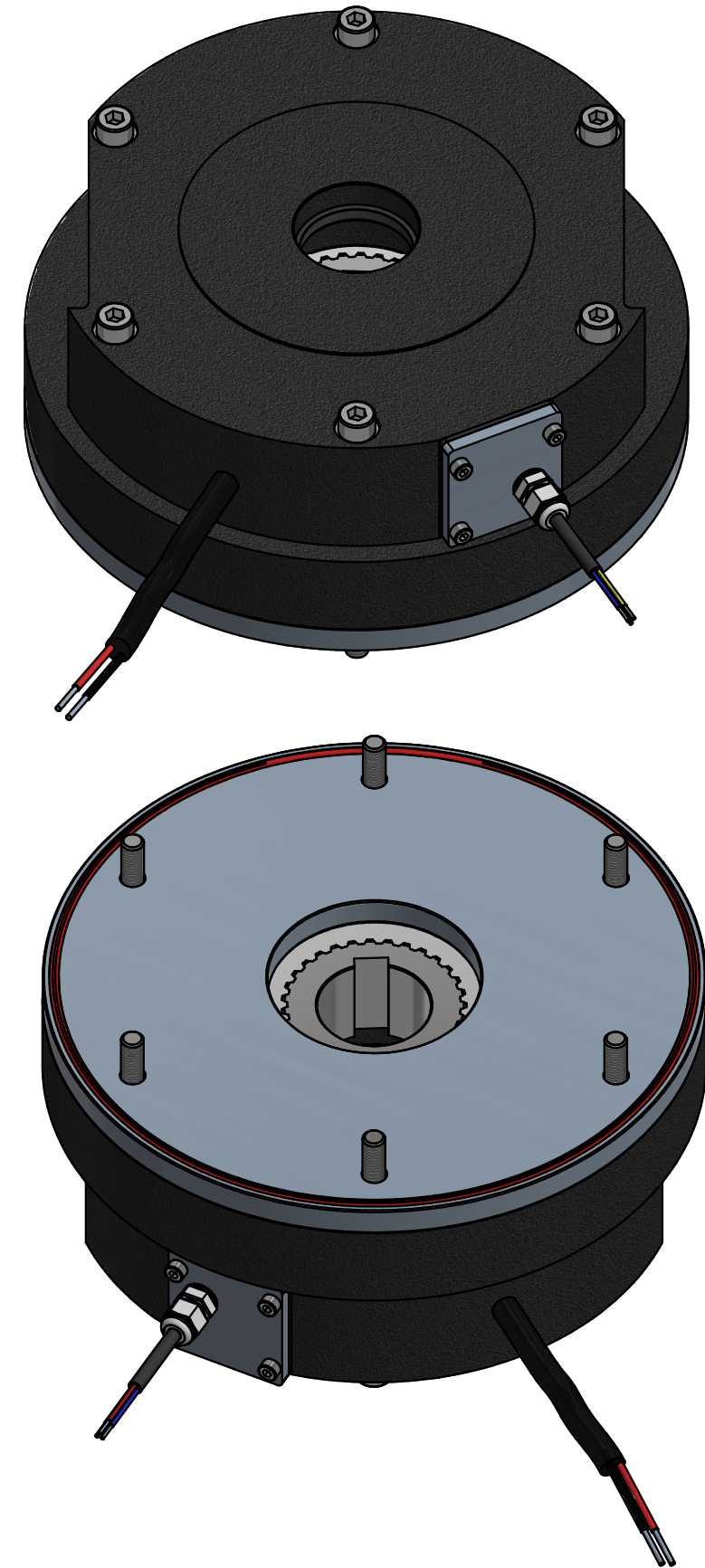
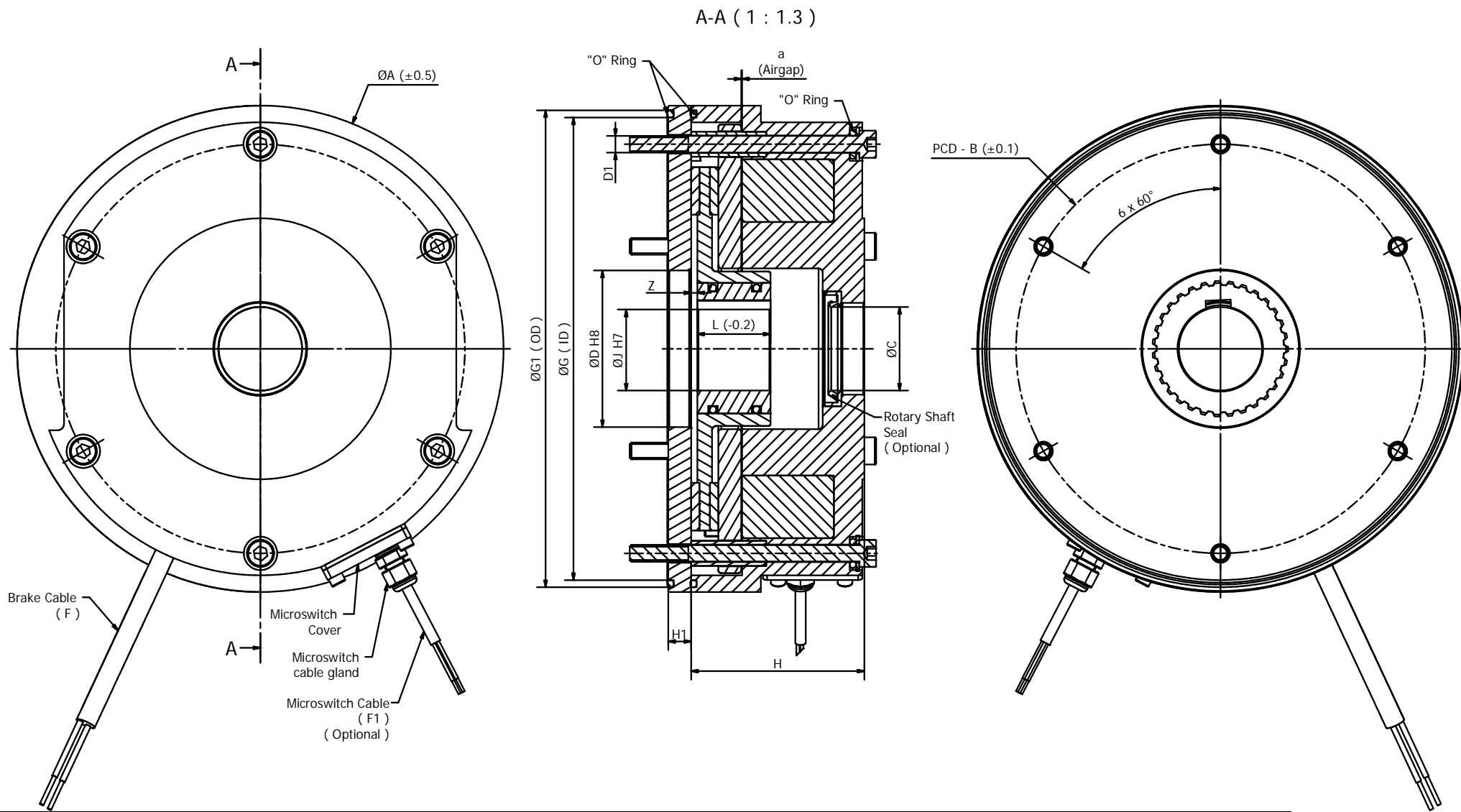


# Emco DC Spring Applied Fail Safe Brake - 14.450.xx (16 to 31) with IP - 66 ( without brake hand release assembly )



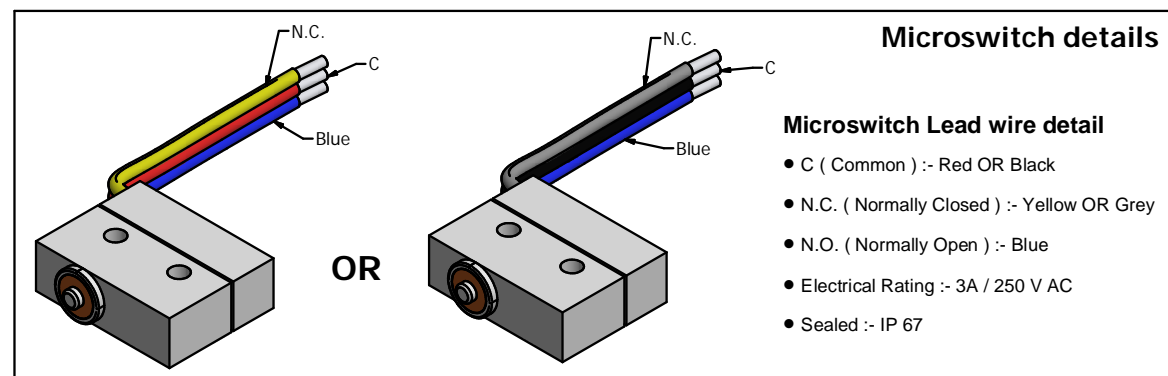
Brake Parameters

Brake Size	Input Power P20 ( w )	Brake Torque M Rat. ( Nm )	a (Airgap)	ØA (±0.5)	PCD - B (±0.1)	ØC	ØD H8	ØG1 ( OD )	ØG ( ID )	ØJ H7	L (-0.2)	Z	D1	H (±2)	H1 (±0.5)	Brake Cable - F	Microswitch Cable - F1
14.450.16	100	100	0.3	204	170	35 max.	65	200.5	193.6	25, 28, 30, 32, 34, 35	30	2.25	3 x M8	72.5	11	610 (±15)	500 (±15)
14.450.18	115	150	0.4	233	196	45 max.	75	228.4	221.6	30, 35, 38, 40, 42, 45	35	3	6 x M8	83	11	610 (±15)	500 (±15)
14.450.20	140	260	0.4	271	230	48 max.	90	266	259.1	35, 40, 42, 45, 48	40	3.5	6 x M10	96	11	610 (±15)	500 (±15)
14.450.23	150	315	0.4	271	230	48 max.	90	266	259.1	35, 40, 42, 45, 48	40	3.5	6 x M10	96	11	610 (±15)	500 (±15)
14.450.25	190	400	0.5	325	278	65 max.	120	318.4	311.6	40, 45, 48, 50, 52, 55, 60, 65	50	4.5	6 x M10	108	12.5	610 (±15)	500 (±15)
14.450.31	210	600	0.5	325	278	65 max.	120	318.4	311.6	40, 45, 48, 50, 52, 55, 60, 65	50	4.5	6 x M10	121	16	610 (±15)	500 (±15)
14.450.31	240	800	0.5	325	278	65 max.	120	318.4	311.6	40, 45, 48, 50, 52, 55, 60, 65	50	4.5	6 x M10	121	16	610 (±15)	500 (±15)

**Important :-**

- Standard voltages : 24 VDC, 103 VDC, 110 VDC, 190 VDC & 205 VDC. ( Other voltages on request. )
- P : Coil power at 20° C.
- Permissible voltage change +5% to -10%.
- Recommended ISO shaft tolerances Up to Ø50 mm = k6, Over Ø50 = m6.
- Keyways to DIN 6885 / IS : 2048.
- Friction material asbestos free.
- Brake to be operated with over excitation voltage rectifier.
- Specifications are subject to change without notice.

**Note :- Optional Items will be provided on customer's request only.**

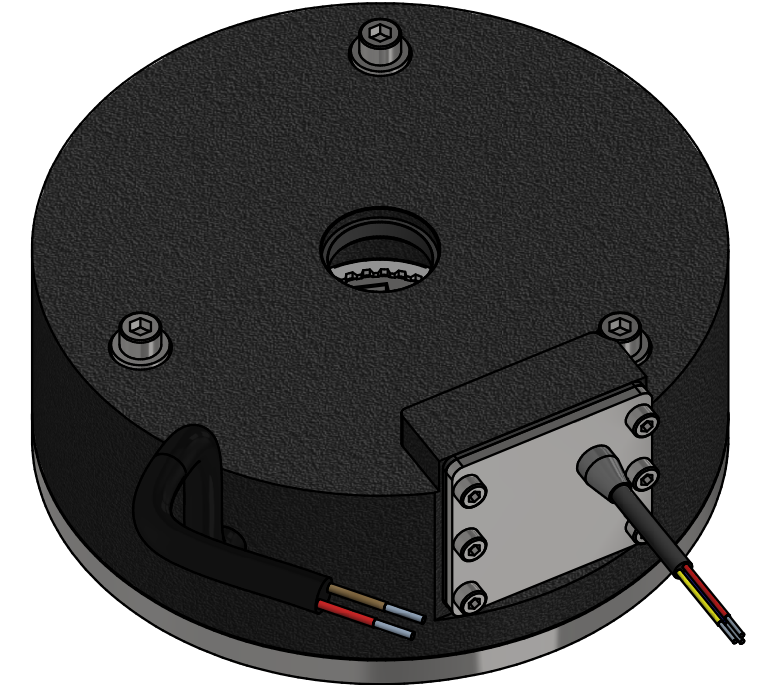
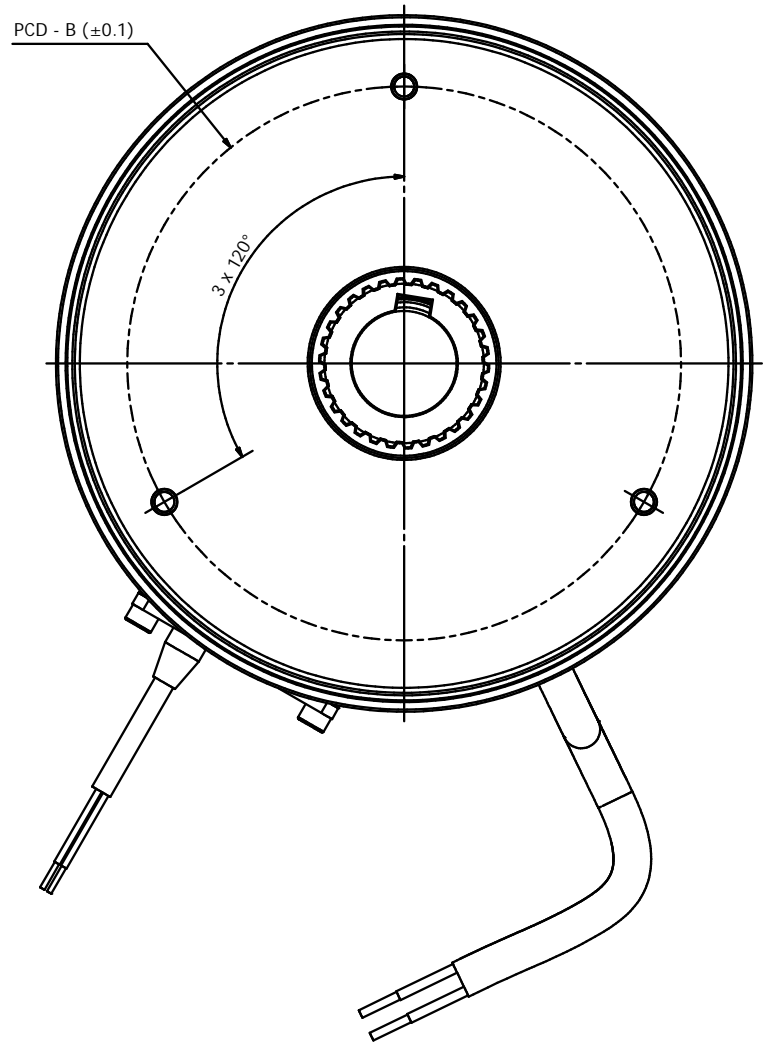
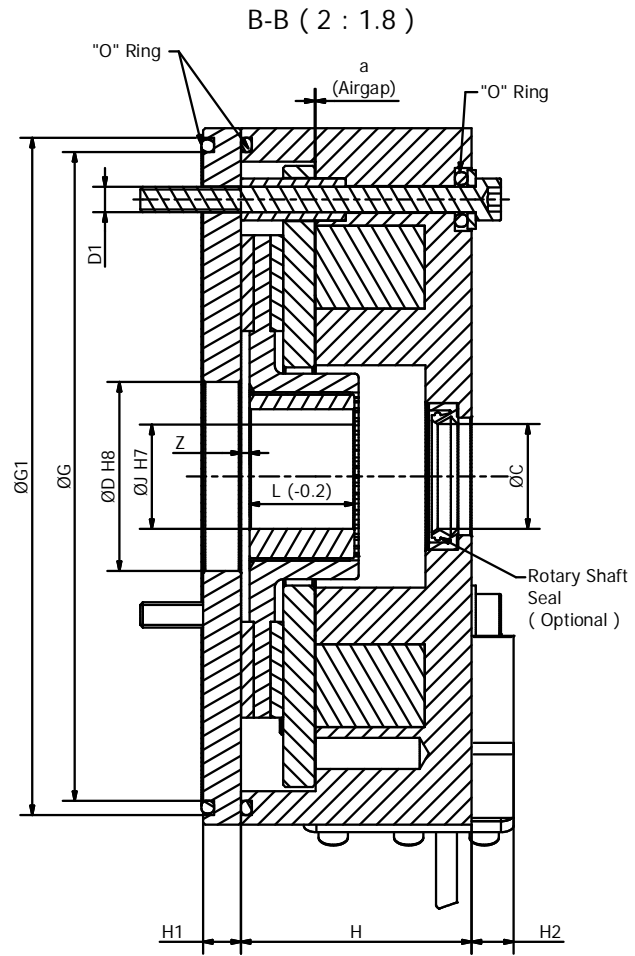
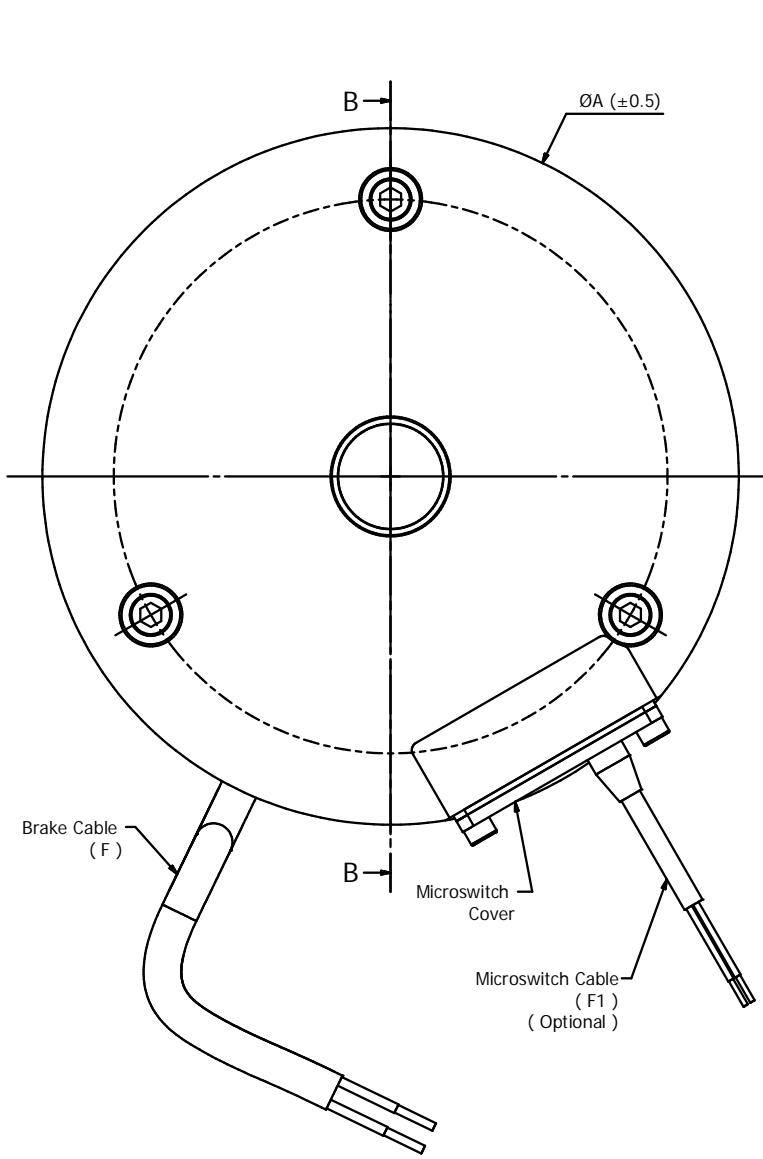


All dimension are in mm.

Drawn. By :-	Himanshu Gajjar
Appr. By :-	V. R. Sharma
Date :-	23-11-2019
Drg. No:-	14.450.xx - 00001

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
00		23-11-2019	V. R. Sharma

# Emco DC Spring Applied Fail Safe Brake - 14.470.xx (10 to 14) with IP - 66 ( without brake hand release assembly )



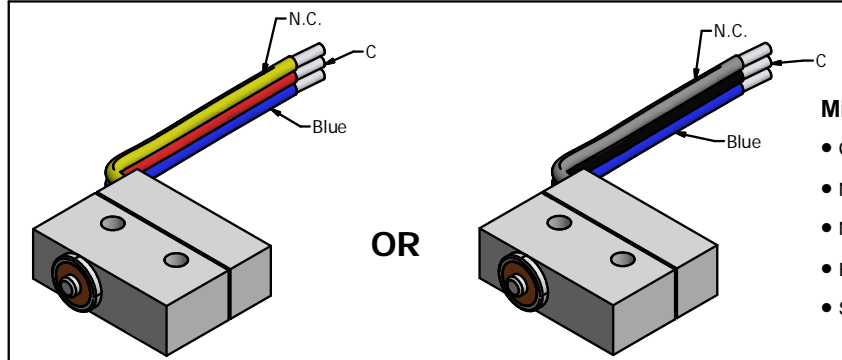
Brake Parameters

Brake Size	Input Power P20 ( w )	Brake Torque M Rat. ( Nm )	a (Airgap)	ØA (±0.5)	PCD - B (±0.1)	ØC	ØD H8	ØG1 ( OD )	ØG ( ID )	ØJ H7	L (-0.2)	Z	D1	H (±2)	H1 (±0.5)	H2 (±2)	Brake Cable - F	Microswitch Cable - F1
14.470.10	50	16	0.2	145	112	20 max.	40	141.1	134.3	11, 12, 14, 15, 19, 20	20	2	3 x M6	50	9	14	410 (±15)	500 (±15)
14.470.12	60	32	0.3	166	132	25 max.	45	161.4	154.6	15, 19, 20, 24, 25	25	2	3 x M6	55	9	10	410 (±15)	500 (±15)
14.470.14	90	60	0.3	180	145	32 max.	55	176	169.1	19, 20, 24, 25, 28, 30, 32	30	2	3 x M8	63.3	11	12	410 (±15)	500 (±15)

**Important :-**

- Standard voltages : 24 VDC, 103 VDC, 110 VDC, 190 VDC & 205 VDC. ( Other voltages on request. )
- P : Coil power at 20° C.
- Permissible voltage change +5% to -10%.
- Recommended ISO shaft tolerances Up to Ø50 mm = k6, Over Ø50 = m6.
- Keyways to DIN 6885 / IS : 2048.
- Friction material asbestos free.
- Brake to be operated with over excitation voltage rectifier.
- Specifications are subject to change without notice.

**Note :- Optional Items will be provided on customer's request only.**



- Microswitch details**
- Microswitch Lead wire detail**
- C ( Common ) :- Red OR Black
  - N.C. ( Normally Closed ) :- Yellow OR Grey
  - N.O. ( Normally Open ) :- Blue
  - Electrical Rating :- 3A / 250 V AC
  - Sealed :- IP 67

All dimension are in mm.

Drawn. By :-	Himanshu Gajjar
Appr. By :-	V. R. Sharma
Date :-	23-11-2019
Drg. No:-	14.470.xx - 00001

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
00		23-11-2019	V. R. Sharma