

Low capacity for commercial scale BCL- * -A General Spec.

2023/03/22

Features



- Low capacity.
- Loading plate can be greater taken.
- OIML R60/C3 certified.

Specification

Specification name	Specification contents
Rated capacity	2.942 N{300 gf}~44.13 N{4.5 kgf}
Safe overload	150 %R.C.
Ultimate overload	200 %R.C.
Rated output	1.6 mV/V±0.2 mV/V
Non-linearity	0.02 %R.O.
Hysteresis	0.02 %R.O.
Repeatability	0.02 %R.O.
Creep	0.02 %R.O./20 min
Creep recovery	0.02 %R.O./20 min
Excitation, recommended	10 V or less
Excitation, maximum	15 V

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Zero balance	±0.04 mV/V
Input resistance	400 Ω~450 Ω
Output resistance	345 Ω~355 Ω
Insulation resistance	2,000 MΩ or more(DC50 V)
Temp. range, compensated	-10 °C~50 °C
Temp. range, safe	-10 °C~50 °C
Temp. effect on zero	0.04 %R.O./10 °C
Temp. effect on output	0.02 %LOAD/10 °C
Class of protection	IP40 or equivalent
Material of element	Aluminium alloy
Durability	1,000,000 times with rated load applied.
Effect of eccentric load	<ul style="list-style-type: none"> ■ BCL-300GM, 600GM <ul style="list-style-type: none"> • Size of loading plate is 200 mm x 200 mm at maximum. • The center of loading plate and the center of load cell should be the same position • Error is within 0.02 %R.O. applied with 1/2 of rated capacity at the position of 50 mm of eccentricity. ■ BCL-1.2K, 1.5K, 3K, 4.5K <ul style="list-style-type: none"> • Size of loading plate is 300 mm x 300 mm at maximum. • The center of loading plate and the center of load cell should be the same position • Error is within 0.02 %R.O. applied with 1/2 of rated capacity at the position of 75 mm of eccentricity.

Table of P/N

Parts No.	Rated capacity [N]	Rated capacity [gf]	Rated capacity [kgf]	Weight(Approx.) [g]	Natural frequency [Hz]	Rated displacement [mm]
BCL-300GM-A	2.942	300		40	97	0.52
BCL-600GM-A	5.884	600		40	143	0.47
BCL-1.2K-A	11.77		1.2	40	235	0.49
BCL-1.5K-A	14.71		1.5	40	263	0.49
BCL-3K-A	29.42		3	40	372	0.49
BCL-4.5K-A	44.13		4.5	40	455	0.49

Parts No.	Class of protection	3D CAD files [STEP]	CAD files[DXF]
BCL-300GM-A	IP40 or equivalent	BCL-300GM-A.STEP	bcl_a.dxf
BCL-600GM-A	IP40 or equivalent	BCL-600GM-A.STEP	bcl_a.dxf
BCL-1.2K-A	IP40 or equivalent	BCL-1.2K-A.STEP	bcl_a.dxf
BCL-1.5K-A	IP40 or equivalent	BCL-1.5K-A.STEP	bcl_a.dxf

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BCL-1.5K-A	IP40 or equivalent	BCL-1.5K-A.STEP	bcl_a.dxf
BCL-3K-A	IP40 or equivalent	BCL-3K-A.STEP	bcl_a.dxf
BCL-4.5K-A	IP40 or equivalent	BCL-4.5K-A.STEP	bcl_a.dxf