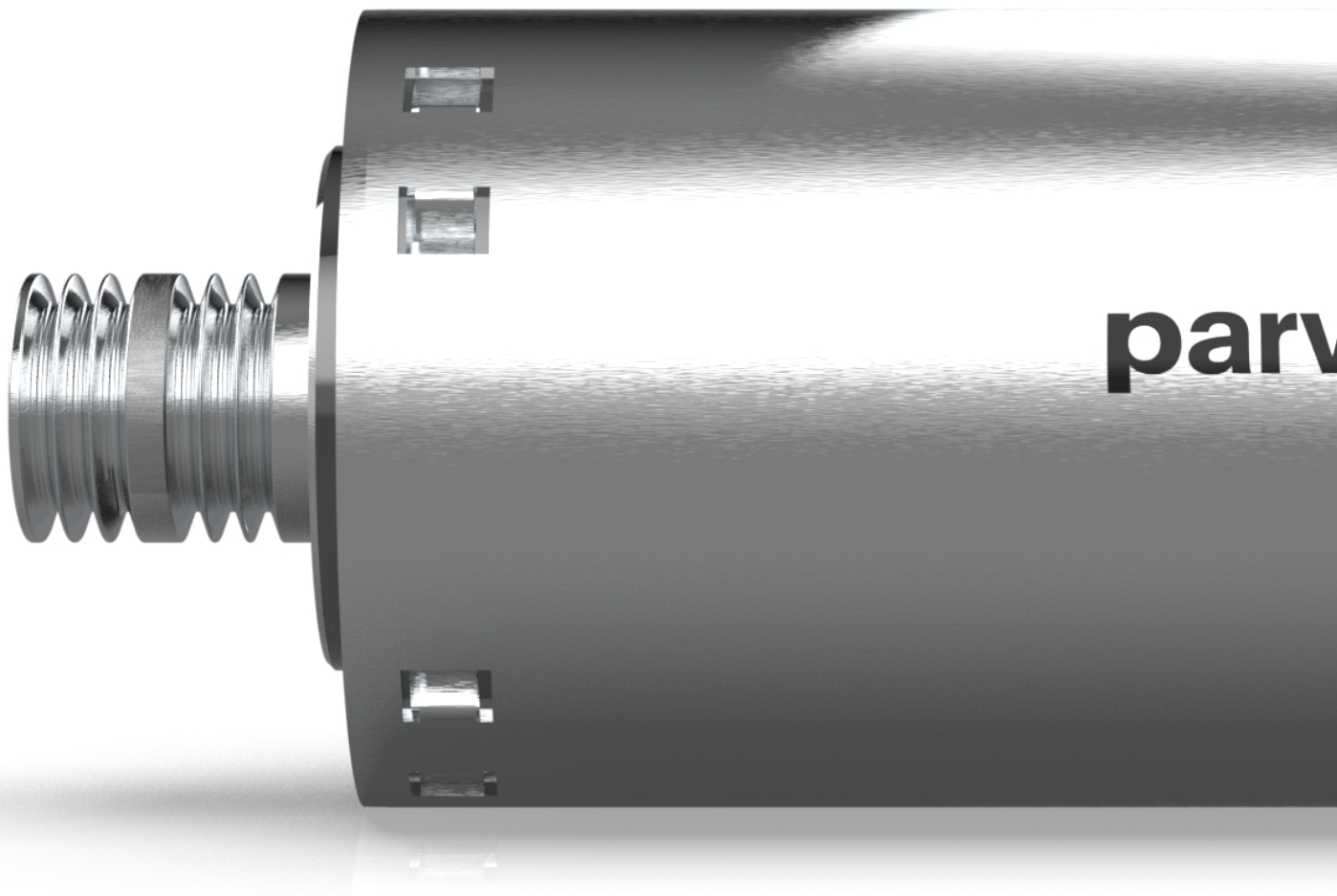


BLx53



Coming soon...

We know how to move

conveyor systems



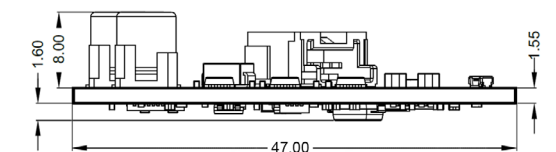
Designed in Switzerland and manufactured in the UK, the **BLx53 BLDC motor** from Parvalux offers high performance in a compact footprint making it the perfect solution for any motor-driven roller conveyor system.

Available in 24 V and offering up to 0.37 Nm of torque in continuous operation, the BLx53 comes as standard with an integrated controller and offers flexibility to OEMs through custom shaft pulleys and mounting flanges available on request.



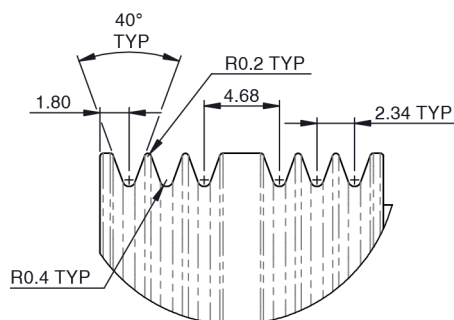
Integrated controller

→ SC 24/4



Pulley

- Custom shaft pulley - Ø20.0 mm standard
- Diameter modifications available on request



Drive-end

- M5 x 0.8 mm - 6H $\pm$ 8.0 mm min.
- Mounting flanges available on request

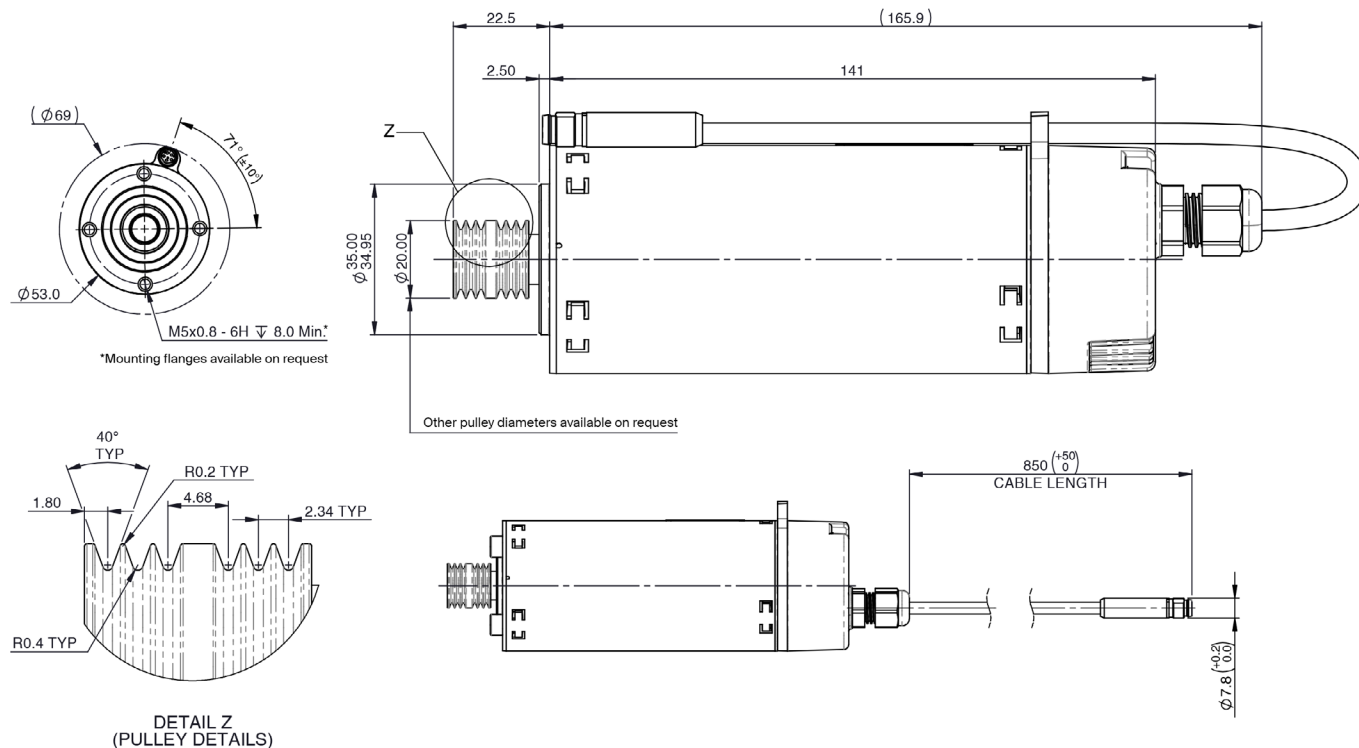
Compact footprint

→ Ø63 mm x L:141 mm

Full technical specification available overleaf

Technical data

Nominal voltage	V	24
Nominal power	W	48 - 53
Nominal speed	rpm	1100 - 1500
Nominal cont. torque	Nm	0.37
Nominal cont. current	A	2.8 - 3.4



all dimensions in mm

Technical data

Nominal power	W	48 - 53	Nominal voltage	V_{DC}	24
Voltage control	V_{DC}	11.9 - 15.0	Nominal speed	rpm	1100 - 1500
Nominal cont. torque	Nm	0.37	Nominal cont. current	A	2.8 - 3.4
Speed constant	rpm/V	0.09	Torque constant	Nm/A	106
Speed/torque gradient	rpm/Nm	879	Max. radial load	N	500
No. of pole pairs		2	No. of phases		3
Motor direction		<4 V CW / >7 V CCW	Noise level	dB(A)	≤50
Ambient operating temperature	°C	0 - +40	Humidity (relative)	%	Max 90
Water ingress		IPX4	Dust ingress		IP5X
Shock		15g 11 semi-sinusoidal	Vibration	Hz	10 - 57 ... 57 - 150

Standards

Nominal power	EN 60034-1	Nominal voltage	EN 60034-1
Nominal speed	EN 60034-1	Nominal cont. torque	EN 60085
Nominal cont. current	EN 60034-1	Noise level	EN 60034-9
Ambient operating temperature	EN 60034-1	Humidity (relative)	EN 60068-2-30
Water ingress	EN 60529:1992+A2:2013	Dust ingress	EN 60529:1992+A2:2013
Shock	EN 60068-2-27	Vibration	EN 60068-2-6

Connector



PIN 1	MOT+ (24V)
PIN 2	0 - 28 V _{DC} - CW: <4. CCW: >7 V _{DC}
PIN 3	MOT- (0V)
PIN 4	OPEN COLLECTOR - 24 V _{DC} (<30V _{DC}) <5mA
PIN 5	SPEED (ANALOG 0 - 15V)