RB6024

Incremental encoder with solid shaft

RB-0040-I24/L6



ϵ

Product characteristics		
Resolution		40 resolution
Shaft design		
Shaft diameter	[mm]	solid shaft
	[mm]	6
Electrical data		
Operating voltage	[V]	1030 DC
Current consumption	[mA]	150
Outputs		
Electrical design		HTL
Max. current load per output	[mA]	50
Switching frequency	[kHz]	160
Type of short-circuit protection		< 60 s
Phase difference A and B	[°]	90
Measuring/setting range		
Resolution		40 resolution
Operating conditions		
Ambient temperature	[°C]	-2070
Storage temperature	[°C]	-30100
Max. relative air humidity	[%]	98
Protection		IP 64
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (552000 Hz)
Mechanical data		
Dimensions	[mm]	Ø 36.5 / L = 38
Materials		aluminium

RB6024

Incremental encoder with solid shaft



RB-0040-I24/L6

Max. revolution, mechanical [U/min]		10000
Max. starting torque	[Nm]	1
Reference temperature torque	[°C]	20
Shaft design		solid shaft
Shaft diameter	[mm]	6
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	5
Max. shaft load radial (at the shaft end)	[N]	10

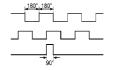
Electrical connection

Cable: 6 m, PUR; radial, can also be used axially

0V white/green brown/green L+ Α brown 0V A green В grey 0VB pink 0 index red black 0V 0 index lilac failure inverted screen housing

Diagrams and graphs

Pulse diagram



direction of rotation clockwise (looking at the shaft)