



MAIN FEATURES

Ø 80 mm encoder series recommended in feedback control systems on AC servomotors. They include a traditional incremental encoder and commutation signals (Hall effect phases).

- · Easy mechanical mounting
- · Small dimensions
- · Wide range of resolutions available
- · High temperature resistance
- 6 channels encoder with optical generation of "Hall effect phases" (commutation signals)
- · Signal transmission by bit parallel bus









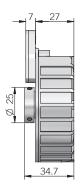


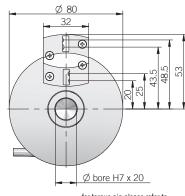
ORDERING CODE	EF80	C	6	L	500	S	5	L	8	X	3	PR	. XXX
incremental encoder with													
	blind hollow s through hollow s	shaft P											
	6 poles	MOTOR s (2 poles s (3 poles s (4 poles	pair) 6										
ELECT	(RICAL INTERFACE F	OR COMM NPI		llector C									
			INCREME pp	ENTAL RES r from 200 pulses av	to 2048								
		300	tubic for		ZEF tithout zer	RO PULSE to pulse S to pulse Z							
			E1 E1	CTDICAL I		POWER	SUPPLY 5 V DC 5	I					
				GIRIGALI	NILKIAGI			RS-422 L	IAMETER mm 8				
									mm 10 mm 14 mm 15				
								E	NCLOSURI	E RATING IP 54 X X rotatio			
									(n	nod. P) 30 nod. C) 60	00 rpm 3 00 rpm 6	OUT TYPE	
					preferred	l cable leng	ths 1 / 2 / 3	3/5/10 m,			dard length		WARIANT
													VARIANT



custom version XXX

EF 80 C





for torque pin please refer to Accessories section

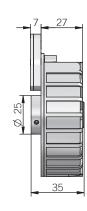
dimensions in mm

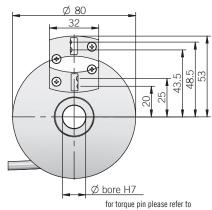
ELECTRICAL SPECIFICATIONS					
Incremental resolution	from 200 to 2048 ppr				
Power supply	4,5 5,5 V DC				
Current consumption without load	200 mA max				
Max load current	20 mA / channel				
Output type for incremental signals *	line driver RS-422 (AELT-5000 or equivalent)				
Output type for Hall phases*	NPN open collector (pull-up max +30V DC) line driver RS-422 (AELT-5000 or equivalent)				
Max output frequency	105 kHz				
Counting direction	A leads B clockwise (shaft view)				
Electromagnetic compatibility	according to 2014/30/EU directive				
RoHS	according to 2011/65/EU directive				
UL / CSA	certificate n. E212495				

^{*} for further details please see OUTPUT LEVELS under TECHNICAL BASICS section

Cable
red
black
green
yellow
blue
brown
orange or pink
white
grey
violet
grey-pink
red-blue
white-green
brown-green
shield

EF 80 P





for torque pin please refer Accessories

MECHANICAL SPECIFICATIONS

Bore diameter	ø8/10/14/15 mm
Enclosure rating	IP 54 (IEC 60529)
Max rotation speed	3000 rpm (mod.P) 6000 rpm (mod.C)
Shock	50 G, 11 ms (IEC 60068-2-27)
Vibration	20 G, 10 2000 Hz (IEC 60068-2-6)
Moment of inertia	4 x 10 ⁻⁶ kgm ² (95 x 10 ⁻⁶ lbft ²)
Starting torque (at +20°C / +68°F)	< 0,04 Nm (5,66 Ozin)
Bearing stage material	PA66 glass fiber reinforced
Shaft material	1.4305 / AISI 303 stainless steel
Housing material	PA66 glass fiber reinforced
Bearings	2 ball bearings
Bearings life	109 revolutions
Operating temperature	-20° +85 °C (-4° +185°F)
Storage temperature	-25° +85 °C (-13° +185°F)
Fixing torque for grub screws	max 0,75 Nm (106 Ozin)
Weight	250 g (8,82 oz)

RESOLUTIONS

200 6 poles 1000 4 / 6 poles 250 6 poles 1024 4 / 6 / 8 poles 500 4 / 6 / 8 poles 2000 6 poles 512 6 poles 2048 6 poles	
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