

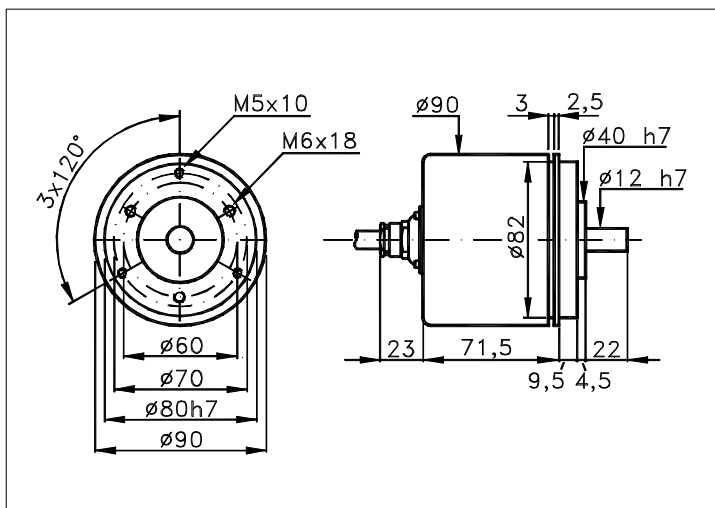
INCREMENTAL ENCODER

90A

ENCODER FOR OPERATION IN ROLLING MILLS AND OTHER EXTREMELY ADVERSE AMBIENTS. ALL-METAL CONTAINER WITH DOUBLE 'O-RING'. VERY STRONG SHAFT.

Family: I
page: 03.90A 1/2
data sheet . II 019 E0A

Sized draw standard version: CW Measures without tolerance according to UNI ISO 2768-mk



TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

- | | | | | |
|------------------------|-----------------------------------|-----|--------------------------|-------------------------------------|
| - Base..... | : ANODIZED ALUMINIUM | (*) | - Ball bearings life.... | : 1,5 x 10 ⁹ revolutions |
| - Cover..... | : ANODIZED ALUMINIUM | (*) | - Impact resistance.... | : 50 G x 11ms |
| - Weight..... | : 800 g | | - Vibration resistance.. | : 12 G (10 ÷ 2000 Hz) |
| - Shaft..... | : Ø 12 STAINLESS STEEL | (*) | - Power supply..... | : 5÷30V (see page 2) |
| - Max.rad/axial load.. | : 15 kg | | - Operating temperature: | : 0 ÷ 70 °C (*) |
| - IP output side.(°).. | : see 'CONNECTION' of page 2 | | - Storage temperature.. | : -30 ÷ 85 °C |
| - IP shaft side.(°).> | std. 66 sealed 67 low torq. - | | - N° of pulses/rev..... | : 1 ÷ 25000 |
| opt. type (page 2).> | standard Z | | - Max frequency..... | : 100 kHz (300 option) |
| - Contin. max RPM(**)> | 6000 3000 - | | - Max consumptions mA.. | : std 120 line driver 180 (*) |
| - Starting torque gcm> | 90 150 - | | - Light source..... | : LED with >= 100000 h life |

(°) IP according to CEI EN 60529, EN 60529, IEC 529

(*) custom options

(**) intermittent max RPM + 30% of continuous max RPM

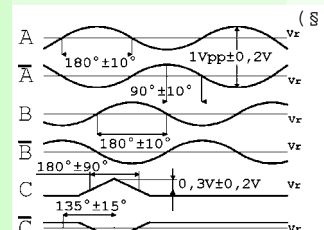
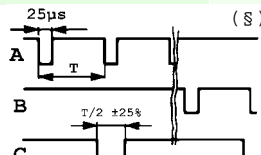
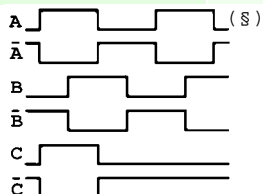
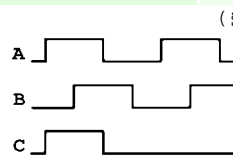
ELECTRONICS

CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA
	STANDARD NPN	10	N	DRIVER 26LS31	30	D	DISCRIMINAT.	70	Y	SINUSOID. 1Vpp	10
K	NPN OPEN COLL	10	T	TTL 7404	10						
Q	NPN	70	C	DRIVER 88C30	20						
R	NPN OPEN COLL	70	L	2x PUSH-P.PRO	70						
P	PNP	70	M	2x PUSH-PULL	70						
U	PNP OPEN COLL	70									
B	PUSH-PULL PRO	70									
H	PUSH-PULL	70									

(§) Clock-wise output rotation (see shaft).

Tolerance between phases ± 25°, symmetry ± 15°

(§) Clock-wise output rotation (see shaft).



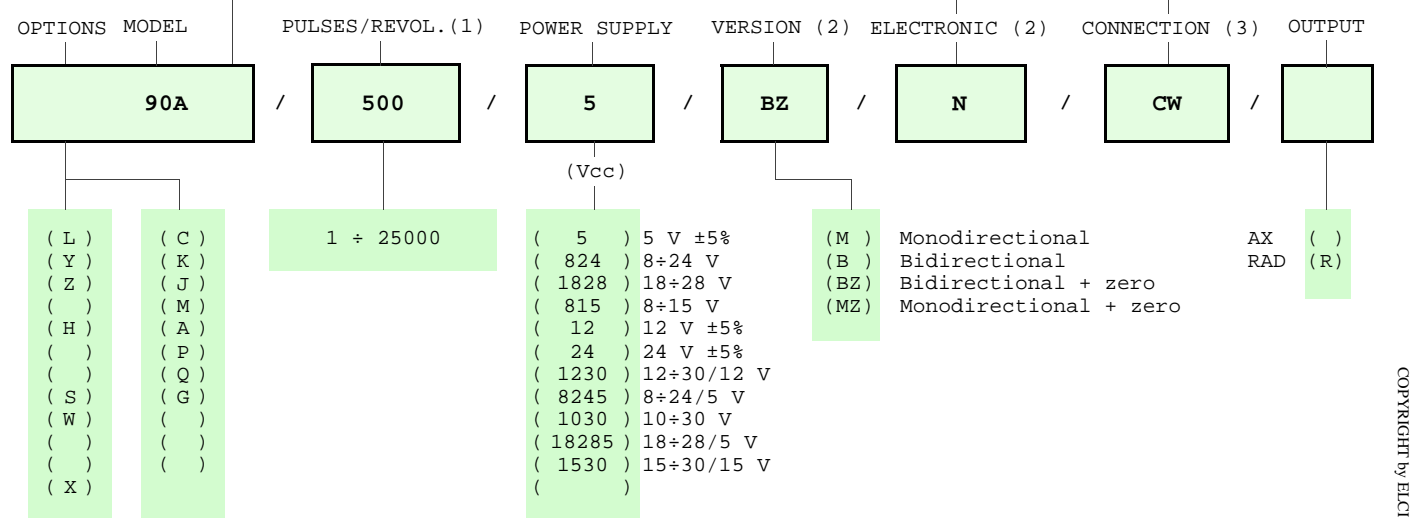
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POSSIBLE OPTIONS				POSSIBLE CONNECTIONS								
CODE	DESCRIPTION	CODE	DESCRIPTION	CABLE				OUTPUT:				
L	Low temperature	C	Low consumption	CW				AX RAD				
Y	Unbreakable disk	K	Invert. phase A,B,Zero.	CONNECTOR				OUTPUT:				
Z	Sealed ball bearing	J	Zero logic combination	CM	SM	CL	SL	CD	CH	CH5	CI	AX RAD
H	Different shaft Ø	M	Impregnated electronic	CE			C4	CH6				
S	160 KHz frequency	A	High temperature	CABLE END CONNECTOR				OUTPUT:				
W	300 KHz frequency	P	Compressed air attack	VM	TM	VL	TL	VD	VH	VH5	VI	AX RAD
X	Custom options	Q	Oil seal	VE	VK	TK	VN	VH6	VM5	VM9	VS	
		G	Tropicalization	VD5								
				TERMINAL BOX				OUTPUT:				

ORDERING INFORMATION


POSSIBLE SHAFT Ø	POSSIBLE OPTIONS	CABLE	CONNECTOR	CABLE END CONNECTOR
()	() STANDARD NPN	IP65		IP65 encoder output
()	(K) NPN OPEN COLL	()	(CM) 7c norm. IP65	(VM) 7c normal
()	(Q) NPN	(CW) 1 m long	(SM) 7c sealed IP66	(TM) 7c sealed
()	(R) NPN OPEN COLL		(CL) 10c norm. IP65	(VL) 10c normal
()	(P) PNP		(SL) 10c sealed IP66	(TL) 10c sealed
()	(U) PNP OPEN COLL		(CD) 9c sub D IP63	(VD) 9c
(n)	(B) PUSH-PULL PRO		(CH) 12c ccw IP67	(VH) 12c anticlock.
()	(H) PUSH-PULL	TERMINAL BOX	(CH5) 12c cw IP67	(VH5) 12c clock-wise
()	(N) DRIVER 26LS31	IP00	(CI) 12c crimp. IP64	(VI) 12c crimped
()	(T) TTL 7404		(CE) 5c miniat IP64	(VE) 5c
()	(C) DRIVER 88C30			(VK) 17c normal
()	(L) 2x PUSH-P.PRO		(C4) 4c screw IP65	(TK) 17c sealed
()	(M) 2x PUSH-PULL		(CH6) 12c cw IP67	(VN) 12c
()	(D) DISCRIMINAT.			(VH6) 12c clock-wise
()	(Y) SINUSOID.1Vpp			(VM5) 26c
()	(X) CUSTOM OPTION			(VM9) 16c
				(VS) 12c
				(VD5) 9c screened



NOTE: FOR 88C30 MAX 15 Vdc

Product manufactured according to UNI EN ISO 9001:2000, supplied with CHECKING and CONFORMITY declaration with CE mark and with TWO (2) YEARS WARRANTY starting from delivery date.

- (1) For further information see PULSES/REVOL. data sheet
- (2) For further information see ELECTRONIC data sheet
- (3) For further information see CONNECTION data sheet

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