

INCREMENTAL
ENCODER

GENERAL PURPOSE COMPACT ENCODER. LOW COST.

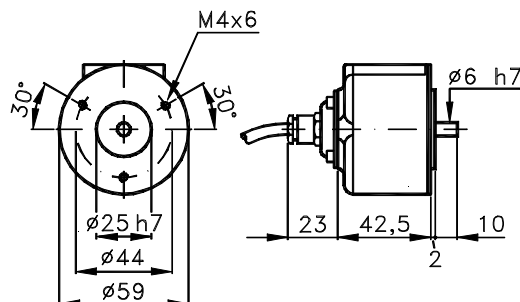
Family: **I**
page: 02. 59A 1/2

59A

data sheet . II 012 E0A

Sized draw standard version: CV

Measures without tolerance according to UNI ISO 2768-mk



TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

- | | |
|--|--|
| <ul style="list-style-type: none"> - Base.....: ANODIZED ALUMINIUM (*) - Cover.....: VALOX 420 (*) - Weight.....: 300 g - Shaft.....: Ø 6 STAINLESS STEEL (*) - Max.rad/axial load.: 3 kg - IP output side.(°).: see 'CONNECTION' of page 2 - IP shaft side.(°)> std. 64 sealed 66 low torq. 53 - opt. type (page 2)> standard Z B - Contin. max RPM(**)> 6000 3000 12000 - Starting torque gcm> 18 30 8 | <ul style="list-style-type: none"> - Ball bearings life....: 1,5 x 10⁹ revolutions - Impact resistance....: 50 G x 11ms - Vibration resistance..: 12 G (10 ÷ 2000 Hz) - Power supply.....: 5÷30V (see page 2) - Operating temperature: 0 ÷ 70 °C (*) - Storage temperature...: -30 ÷ 85 °C - N° of pulses/rev.....: 1 ÷ 25000 - Max frequency.....: 100 kHz (300 option) - Max consumptions mA..: std 120 line driver 180 (*) - Light source.....: LED with >= 100000 h life |
|--|--|

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

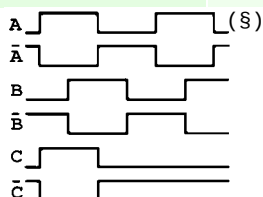
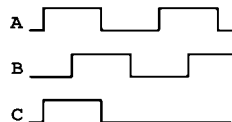
(*) custom options

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

ELECTRONICS

CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA
K	STANDARD NPN	10	N	DRIVER 26LS31	30						
Q	NPN OPEN COLL	10	T	TTL 7404	10						
R	NPN OPEN COLL	70	C	DRIVER 88C30	20						
P	PNP	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).



ELCIS s.r.l. Via Rosa Luxembourg 12/14 10093 COLLEGNO (TO) ITALY
Phone: +39 011 715577/78 a.r.
MAIL: ELCIS s.r.l. P.O.Box 43 10093 COLLEGNO (TO) ITALY

* <http://www.elcis.com>
* e-mail: info@elcis.com
* Fax: +39 011 712613

N.I.F.: B-87969416



GUEMISA

C\ Del Electrodo, 68 Oficina-23
28522 Rivas Vaciamadrid (Madrid)
Tfno.: 91 764 21 00 - info@guemisa.com

POSSIBLE OPTIONS		POSSIBLE CONNECTIONS	
CODE	DESCRIPTION	CODE	DESCRIPTION
L	Low temperature	C	Low consumption
Y	Unbreakable disk	K	Invert. phase A,B,Zero.
Z	Sealed ball bearing	J	Zero logic combination
B	Low torque ball bear.	M	Impregnated electronic
H	Different shaft Ø	A	High temperature
S	160 KHz frequency	G	Tropicalization
W	300 KHz frequency		
X	Custom options		

ORDERING INFORMATION

POSSIBLE SHAFT Ø	STANDARD NPN	CABLE	CONNECTOR	CABLE END CONNECTOR
()	(K) NPN OPEN COLL	IP65		IP65 encoder output
()	(Q) NPN	(CV) 1 m long	()	(VM) 7c normal
()	(R) NPN OPEN COLL	()	()	(TM) 7c sealed
()	(P) PNP	()	()	(VL) 10c normal
(n) Ø n upon requ.	(U) PNP OPEN COLL		()	(TL) 10c sealed
()	(B) PUSH-PULL PRO		()	(VD) 9c
()	(H) PUSH-PULL	TERMINAL BOX	()	(VH) 12c anticlock.
()	(N) DRIVER 26LS31	IP00	()	(VH5) 12c clock-wise
()	(T) TTL 7404	()	()	(VI) 12c crimped
()	(C) DRIVER 88C30		()	(VE) 5c
()			()	(VK) 17c normal
()			()	(TK) 17c sealed
()			()	(VN) 12c
()	(X) CUSTOM OPTION		()	(VH6) 12c clock-wise
()			()	(VM5) 26c
				(VM9) 16c
				(VS) 12c
				(VD5) 9c screened

OPTIONS	MODEL	PULSES/REVOL. (1)	POWER SUPPLY	VERSION (2)	ELECTRONIC (2)	CONNECTION (3)	OUTPUT
	59A	500	5	BZ	N	CV	
			(Vcc)				
(L)	(C)	1 ÷ 25000	(5) 5 V ±5%	(M) Monodirectional			AX ()
(Y)	(K)		(824) 8÷24 V	(B) Bidirectional			RAD (R)
(Z)	(J)		(1828) 18÷28 V	(BZ) Bidirectional + zero			
(B)	(M)		(815) 8÷15 V	(MZ) Monodirectional + zero			
(H)	(A)		(12) 12 V ±5%				
()	()		(24) 24 V ±5%				
()	()		(1230) 12÷30/12 V				
(S)	(G)		(8245) 8÷24/5 V				
(W)	()		(1030) 10÷30 V				
()	()		(18285) 18÷28/5 V				
(X)	()		(1530) 15÷30/15 V				

NOTE: FOR 88C30 MAX 15 Vdc

- (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

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.

ELCIS company has the right to make any changing without previous notice.

data sheet II012 E0A page: 02. 59A 1/2



ELCIS s.r.l. Via Rosa Luxembourg 12/14 10093 COLLEGNO (TO) ITALY
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