

MOTOREN DESMEDT NV

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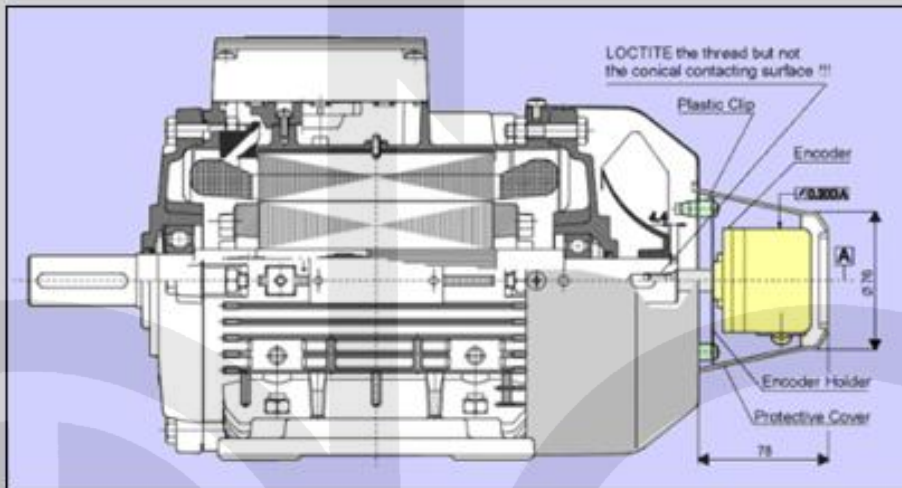
Digital-Tacho Incremental Encoder

Encoder type: 1XP8 001

The encoder 1XP8 001 can be supplied as an HTL version (1XP8 001-1) or as TTL version (1XP8 001-2).

It can be supplied fitted to a motor of your choice or it can be supplied loose as an Assembly Kit.

A provision for it's fitting (drilled and tapped NDE shaft) has been made as standard on motor frame sizes 100L to 315L.



	1XP8 001-1 (HTL version)	1XP8 001-2 (TTL version)
Supply voltage UB	+10 V to +30 V	5 V ±10 %
Current input without load	200 mA	150 mA
Maximum load current per output	max. 100 mA	max. 100 mA
Pulses per revolution	1024	1024
Outputs	2 square-wave pulses A,B -2 inverted square-wave pulses A,B Zero pulse and inverted zero pulse	
Pulse offset between the two outputs	90° ± 20 %	90° ± 20 %
Output amplitude	UHigh > UB - 3.5 V ULow < 3V	UHigh ≥ 2.5 V ULow ≤ 0.5 V
Minimum edge interval	0.8 μs at 160 kHz	0.45 μs at 300 kHz
Edge steepness (without load or cable)	t+, t- ≤ 200 ns	t+, t- ≤ 100 ns
Maximum frequency	160 kHz	300 kHz
Maximum speed	9000 rpm	12000 rpm
Temperature range	-20 °C to +100 °C	-20 °C to +100 °C
Degree of protection	IP 66	IP 66
Maximum radial cantilever force	60 N	60 N
Maximum axial force	40 N	40 N
Termination system	12-way plug (socket supplied)	12-way plug (socket supplied)