Series PS150

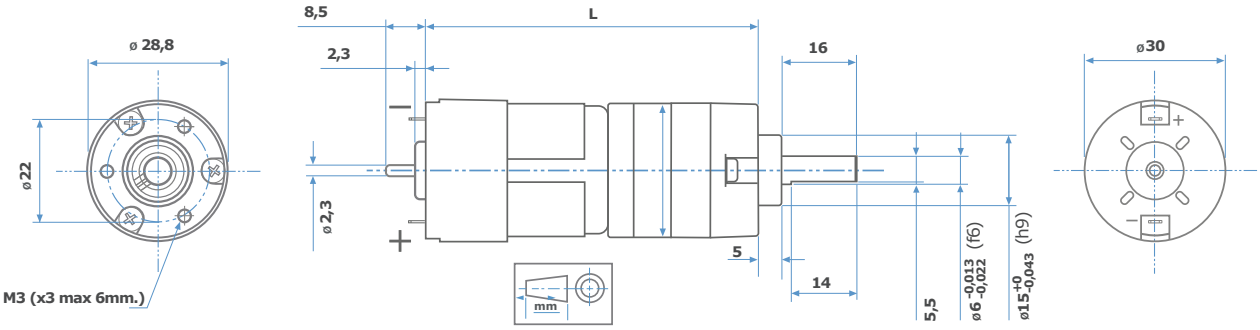
Motoriduttore epicicloidale.
Soppressione disturbi motore con VDR.
Albero di uscito supportato da due cuscinetti a sfere
Massimo carico radiale: 200N
(a 10 mm dalla flangia di fissaggio).
Massimo carico assiale: 50N
Direzione di rotazione seconda polarità.
Può essere montato in ogni posizione.
Temperatura di esercizio: -20°C/60°C.
Peso approssimativo: 150/220g.

Planetary gear-motor.
Motor interference suppression by VDR
Outgoing shaft supported by two ball bearings.
Maximun radial shaft load: 200N
(10 mm from the fixing flange).
Maximum axial shaft load: 50N
Direction of rotation depending on polarity
Can be mounted in any position
Temperature range: -20°C/60°C
Approx weight: 150/220g.

Valori tipici a temperatura ambiente +20°
Tolleranza +/- 10%

Typical values at ambient temperature +20°
Tolerance +/- 10%

TIPO *TYPE*	TENSIONE NOMINALE *NOMINAL VOLTAGE*	L	RAPPORTO :1 *RATIO TO :1*	COPPIA NOMINALE *NOMINAL TORQUE*	VELOCITA' *SPEED*		CORRENTE *CURRENT*		POTENZA ASSORBITA CON COPPIA NOMINALE INPUT POWER AT NOMINAL TORQUE
					SENZA CARICO *NO LOAD*	CON COPPIA NOMINALE *AT NOMINAL TORQUE*	SENZA CARICO *NO LOAD*	CON COPPIA NOMINALE *AT NOMINAL TORQUE*	
	V	mm		Ncm	rpm		mA		W
PS 150 • 12/24 • 3	12 24	63	3,4	3	2000 2040	1130 1340	<200 <150	820 430	9,8 10,3
PS 150 • 12/24 • 5	12 24	63	5	5	1365 1360	650 780	<200 <150	900 460	10,8 11,0
PS 150 • 12/24 • 12	12 24	71,2	11,56	10	570 575	300 340	<200 <150	900 440	10,8 10,6
PS 150 • 12/24 • 17	12 24	71,2	17	15	380 380	205 245	<200 <150	850 440	10,2 10,6
PS 150 • 12/24 • 25	12 24	71,2	25	20	260 272	163 180	<200 <150	770 400	9,2 9,6
PS 150 • 12/24 • 39	12 24	79,4	39,3	30	162 163	100 103	<200 <150	830 460	10,0 11,0
PS 150 • 12/24 • 58	12 24	79,4	57,8	50	111 115	57 65	<200 <150	940 470	11,3 11,3
PS 150 • 12/24 • 85	12 24	79,4	85	75	75 77	38 45	<200 <150	950 450	11,4 10,8
PS 150 • 12/24 • 125	12 24	79,4	125	100	54 54	26 34	<200 <150	900 440	10,8 10,6
PS 150 • 12/24 • 196	12 24	87,7	196,52	140	33 34	19 21	<200 <150	950 430	11,4 10,3
PS 150 • 12/24 • 289	12 24	87,7	289	180	23 23	14 17	<200 <150	800 400	9,6 9,6
PS 150 • 12/24 • 425	12 24	87,7	425	250	15 16	10 11	<200 <150	800 360	9,6 8,6
PS 150 • 12/24 • 625	12 24	87,7	625	250	11 11	8,5 8,5	<200 <150	530 280	6,4 6,7



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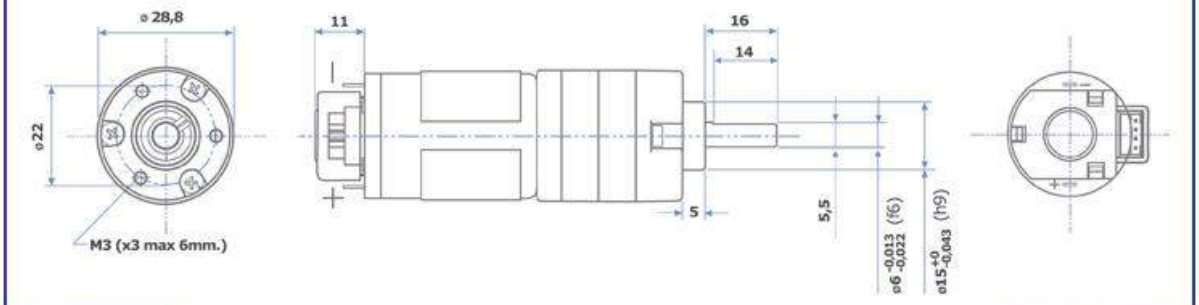
Antriebstechnik GmbH

PS150-2S



gear-motors with two-phase Hall-effect 90° encoder

SIX POLES MAGNET: THREE PULSES FOR MOTOR TURN

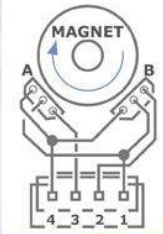
The sequence of the phases A-B is obtained connecting the motor with the polarities printed on the black bottom cover.

HALL-EFFECT SWITCHES

These Hall-effect switches are highly temperature stable and stress-resistent sensors best utilized in applications that provide steep magnetic slopes and low residual levels of magnetic flux density. Each device includes a voltage regulator, quadratic Hall voltage generator, temperature stability circuit, signal chopper stabilized amplifier, Schmitt trigger and an open drain mosfet on a single silicon chip.
The on-board regulator permits operation with supply voltages of 3,5 to 24V. The output mosfet can sink up to 20 mA with suitable output pull up, they can be used directly with bipolar or MOS logic circuits.

connections

1 Green: GROUND
2 Yellow: O.C. B NPN
3 Blue: O.C. A NPN
4 Brown: Vcc (Hall)



ABSOLUTE MAXIMUM RATINGS			
PARAMETER	SYMBOL	VALUE	UNITS
Supply Voltage	VDD	28	V
Supply Current	IDD	50	mA
Output Voltage	VOUT	28	V
Output Current	IOUT	50	mA
Storage Temperature Range	TS	-50 to 150	°C
Maximum Junction Temperature	TJ	165	°C

Exceeding the absolute maximum ratings may cause permanent damage. Exposure to all absolute-maximum-rated conditions for extended periods may affect device reliablilty.

GENERAL ELECTRICAL SPECIFICATIONS						
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYPE	MAX	UNITS
Supply Voltage	VDD	Operating	3,5	-	24	V
Supply Current	IDD	B<BRP	-	-	5	mA
Output Saturation Voltage	VDSon	IOUT=20mA, B>BOP	-	-	0,5	V
Output Leakage Current	IOFF	IB<BRP, VOUT=24V	-	0,3	10	µA
Output Rise Time	tr	RL=1kΩ, CL=20pF	-	0,25	-	µs
Output Fall Time	tr	RL=1kΩ, CL=20pF	-	0.25	-	µs
OC Operating Parameters TA = 25 °C, VDD = 3,5V to 24V (unless otherwise specified)						

motoriduttori con encoder ad effetto Hall bifase a 90°

gear-motors with two-phase Hall-effect 90° encoder

MAGNETE A SEI POLI:

TRE IMPULSI OGNI GIRO MOTORE

La successione delle fasi A-B si ottiene collegando il motore secondo le polarità stampigliate sul fondello.

INTERRUTTORE AD EFFETTO HALL

Questi interruttori ad effetto Hall, sono sensori altamente stabili termicamente e resistenti alle sollecitazioni meccaniche, sono maggiormente utilizzati in applicazioni dove il campo magnetico varia rapidamente il valore di campo residuo è basso.
Ciascun dispositivo include un regolatore di tensione, un generatore di Hall, un circuito stabilizzatore di temperatura, un amplificatore di segnale stabilizzato a chopper, un comparatore di Schmitt ed un mosfet a drain aperto, compresi su un solo "chip" di silicio.
Il regolatore di tensione permette di alimentare il dispositivo con tensione compresa tra 3,5 e 24V.
Il mosfet di uscita può sopportare correnti di 20mA massimo. Con opportuno valore di resistenza di carico in uscita può essere agevolmente interfacciato con logiche bipolari o MOS.

SIX POLES MAGNET:

THREE PULSES FOR MOTOR TURN

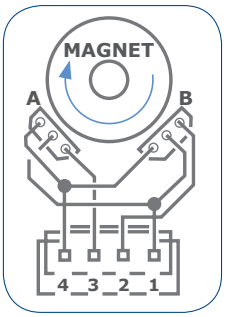
The sequence of the phases A-B is obtained connecting the motor with the polarities printed on the black bottom cover.

HALL-EFFECT SWITCHES

These Hall-effect switches are highly temperature stable and stress-resistant sensors best utilized in applications that provide steep magnetic slopes and low residual levels of magnetic flux density. Each device includes a voltage regulator, quadratic Hall voltage generator, temperature stability circuit, signal Schmitt chopper stabilized amplifier, Schmitt trigger and an open drain mosfet on a single silicon chip.
The on-board regulator permits operation with supply voltages of 3,5 to 24V. The output mosfet can sink up to 20 mA with suitable output pull up, they can be used directly with bipolar or MOS logic circuits.

collegamenti

1 Verde: GND
2 Giallo: O.C. B NPN
3 Blu: O.C. A NPN
4 Marrone: Vcc (Hall)



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Output Voltage	VOUT	28	V
Output Current	IOUT	50	mA
Storage Temperature Range	TS	-50 to 150	°C
Maximimum Junction Temperature	TJ	165	°C

Exceeding the absolute maximum ratings may cause permanent damage. Exposure to all absolute-maximum-rated conditions for extended periods may affect device reliability.

GENERAL ELECTRICAL SPECIFICATIONS

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Supply Voltage	VDD	Operating	3,5	-	24	V
Supply Current	IDD	B<BRP	-	-	5	mA
Output Saturation Voltage	VDSon	IOUT=20mA, B>BOP	-	-	0,5	V
Output Leakage Current	IOFF	IB<BRP, VOUT=24V	-	0,3	10	µA
Output Rise Time	tr	RL=1kΩ, CL=20pF	-	0,25	-	µs
Output Fall Time	tr	RL=1kΩ, CL=20pF	-	0,25	-	µs

OC Operating Parameters TA = 25 C°, VDD = 3,5V to 24V (unless otherwise specified)