

TERMINATION CHART

BMR ORDERING INFORMATION – (For Standard Options)

FEEDBACK OPTIONS

(B STANDARD) MS3102R-22-14P			
PIN	Com. Encoder	Resolver	Hall (Note 1)
A	Brake+	Brake+	Brake+
B	Brake-	Brake-	Brake-
C	-	S2 (Sine+)	-
D	-	S4 (Sine-)	-
E	Encoder \bar{A}	-	-
F	Encoder A	-	-
G	Hall U	S1 (Cosine+)	H1
H	Hall V	S3 (Cosine-)	H2
J	Hall W	-	H3
K	Encoder 5V	R1 (Excit.+)	+5V to +24V
L	Encoder Com	R2 (Excit.-)	Common
M	-	-	-
N	Thermostat	Thermostat	Thermostat
P	Thermostat	Thermostat	Thermostat
R	Encoder \bar{B}	-	-
S	Encoder B	-	-
T	Encoder M	-	-
V	Encoder \bar{M}	-	-

PIN	Modular Encoder	PIN	Modular Encoder
M	5 Volt	S	B
U	Common	R	\bar{B}
F	A	T	M
E	\bar{A}	V	\bar{M}

BMR 4 027 A HA B A P A A 000

FRAME SIZE
4 = 4.21" Dia.

STALL TORQUE
027 = 27 lb-in
045 = 45 lb-in
067 = 67 lb-in

WINDINGS
A = 20 V/Krpm
D = 50 V/Krpm
E = 60 V/Krpm
G = 80 V/Krpm

COMMUTATION/FEEDBACK (see note 3)

HA = Hall Sensor only
MO = Enc. Mtg. Provisions
RA = Resolver, 12 Arc Min
PA = Resolver, 7 Arc Min
SP = Special

Commutating Encoders	Line Count	Modular Encoders*
CC = 500	=	MC
CD = 1000	=	MD
CE = 1024	=	ME
CF = 2500	=	MF
SC = Special	=	MS

*Modular Encoder selection includes Hall Sensor Commutation

BRAKE (Internal) (see note 4)

0 = None
B = 24 VDC Coil

ENGINEERING MODIFICATIONS

SEALING

0 = None

A = per IP65 w/o shaft seal

B = per IP65 w/shaft seal

MOUNTING (see note 1)

A = 5.00 Sq. Flange with .625"

Dia. x 2.04" long shaft

D = NEMA 42 Flange with 0.625"

Dia. x 1.38" long shaft

M = Metric IEC72 Flange w/12J6 Dia.

shaft

S = Special Flange and shaft

TERMINATIONS

C = Connector, MS3102A-20-4P Motor

MS3102A-22-14P

Feedback

H = Heyco seal-tite w/1.5 ft shielded cable

P = Pipe Tap (NPT) w/1.5 ft shielded cable

MATING CONNECTORS (see note 2)

0 = None

A = Straight

B = Rt. Angle

S = Special

Note 1. Hall Sensor Specifications

Voltage = 5V to 24V

Current = 10 ma typical, 25 ma max.

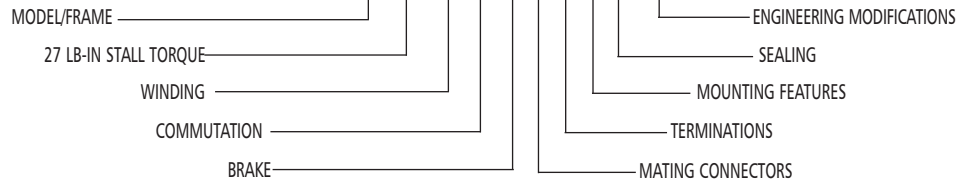
Output = Open collector

Note 2. Com. Encoder

Current = 250 ma

EXAMPLE:

BMR 4 027 A RA B A C A A 000



Notes:

- Standard BMR4000 motor mounting flanges use NEMA 23 standards but allow oversized shaft diameters to carry the rated torque load. Standard NEMA shaft diameters are typically undersized for most servo ratings and are not recommended. Consult factory regarding acceptable load limits before ordering or applying this option.
- Standard encoders are dual channel line driver output with a marker pulse and complementary outputs.
- Brakes are for holding static loads and not designed to stop moving loads. Standard coils are 24 volts DC.

CUSTOMIZE THE 4000 SERIES TO YOUR EXACT REQUIREMENTS

To satisfy various applications with cost-effective solutions, 4000 Series motors are readily available with a wide range of standard capabilities. Final designs are often the result of cooperative efforts between the customer's engineering department and Torque Systems. For assistance, call your local distributor or Torque Systems direct. We look forward to meeting your custom requirements.

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