

BALDOR® • RELIANCE

Product Information Packet

GPP7456

G.M. D24KA 90VDC 60:1 42 RPM GPP7456

Part Detail							
Revision:	V	Status:	PRD/A	Change #:		Proprietary:	No
Type:	DC	Prod. Type:		Elec. Spec:	24WGZ017	CD Diagram:	CD1899
Enclosure:	TENV	Mfg Plant:		Mech. Spec:		Layout:	24A614Z017G8
Frame:	PSL	Mounting:		Poles:	///	Created Date:	03-10-2006
Base:		Rotation:	R	Insulation:	F	Eff. Date:	05-06-2016
Field Type:		Literature:		Elec. Diagram:		Replaced By:	

Nameplate NP1220A08

CAT.NO.	GPP7456		
SER.NO			
SPEC.	24A614Z017G8		
FRAME	PSL	TYPE	2424P
HP	.25	TE	
VOLTS	90		
AMP	2.5		
F.F.	1.3	CLASS	F
AMB.	40	DUTY	CONT
BRUSHES	2/BP5052BP01		
R.P.M.	42		
TORQ/IN LB	280		
RATIO	60:1		
APRV-CE		APRV-CUL	

Parts List		
Part Number	Description	Quantity
SA140076	SA 24A614Z017G8	1.000 EA
AA011958	AA 24A614Z017G8	1.000 EA
LC0899A08	CONNECTION LABEL, DCPM CCW ROTATION CE C	1.000 EA
BP5052BP01SP	BRUSH, GRADE R884 NATIONAL CARBON (FOR 1	1.000 EA
HG0076A02BL	HSG,PSL EP 24DC FRAME LONG HOUSING	1.000 EA
HW4600G58	SEAL,10X20X4MM PGS 25002184 VITON VT802	1.000 EA
BMH1716	WASHER,PREC 1.175"X.751"X.020"	1.000 EA
HW5002A45	RETAINING RING,WALDES TRUARC N5002-118	1.000 EA
BH1163A02	SCE88 INA NEEDLE ROL SM21	1.000 EA
HA4021A05	1/16 NPSF-HX SOC PIPE PLUG TAPER DRY SEA	1.000 EA
24EP3102A01L	EP,24DC 0DE CL 0.63P4	1.000 EA
HW5109A13	WASHER, WAVE SPRING FOR 26MM BORE SMALLE	1.000 EA
BP4529SP	BRUSH TUBE HOLDER:BBR1097	1.000 EA
BP4530SP	BRUSH TUBE CAP:BBR1094	1.000 EA
80XN1032A04	10-32 X 1/4 SET SCREW	2.000 EA
LD0110A04	ASM,CABLE 18-3 SJTO BR,BL,G/Y, 40"	1.000 EA
55XT0632G03	6-32 X 0.187 RD HD PHILLIPS, SERRATED	1.000 EA
WD4102A01	SR-6L-1 HEYCO STRN RELIEF OR 23MPO6L10 M	1.000 EA
HA3100A39	THRUBOLT 10-32 X 6.375	2.000 EA
BGS00975	SHAFT,ASSY PSL LONG INT1 3RED 3.0/5.0	1.000 EA
BGS00076	SHAFT ASS'Y PSL LONG INT2 3RED 4.0/3.0	1.000 EA
BGS00077	SHAFT,ASSY PSL LONG OUTP 2RED 0.0/4.0	1.000 EA
CG0012A01BL	CAP, PSL GEAR HEAD	1.000 EA
BH1163A03	SCE1212 INA NEEDLE ROLLER BBG1027	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
RM1020A22	O-RING .070 X 4.527	1.000 EA
HW4600G71	SEAL, .750 X 1.250 X .250 SGL LIP FT802	1.000 EA
60XM2520A12	SCREW,PAN TORX 1/4-20X.750 THREAD FORMIN	4.000 EA
MJ1000B02	KLUB. GH6-460 GEAR OIL 1 GALLON	0.112 GA
BMH1910	KEY 3/16X3/16X1 1/8 AUTO X	1.000 EA
NP1220A08	NP,DC STD AD NONE V GEAR MOTOR CE CUL	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA
CPA1000	PACKING GROUP STD. SINGLE	1.000 EA
MG2000A14	RUST VETO 342 RUST INHIBITOR	0.001 GA
ME4000	.375-.75" DIA.#SW-04 WOVEN SHAFT PROTECT	0.125 FT

Accessories		
Part Number	Description	Multiplier
LB74	KIT HB7042A00 L-BRACKET BLACK POWDER	A8
BC130	FRAC DC ANALOG,115AC,50/60HZ,3A,1	E9
BC138	3478# KBWM-120 CN3000A57	E9
BC140	CS2934A,120/240VAC .5/1-HP SCR CTL,NEMA	E9
BC140-FBR	3479G KBMD-240D w/FBR CN3000A54	E9
BR0050	PLUG IN RESISTOR	E9

DC Motor Performance Data

Record # 2115 - Typical performance - not guaranteed values

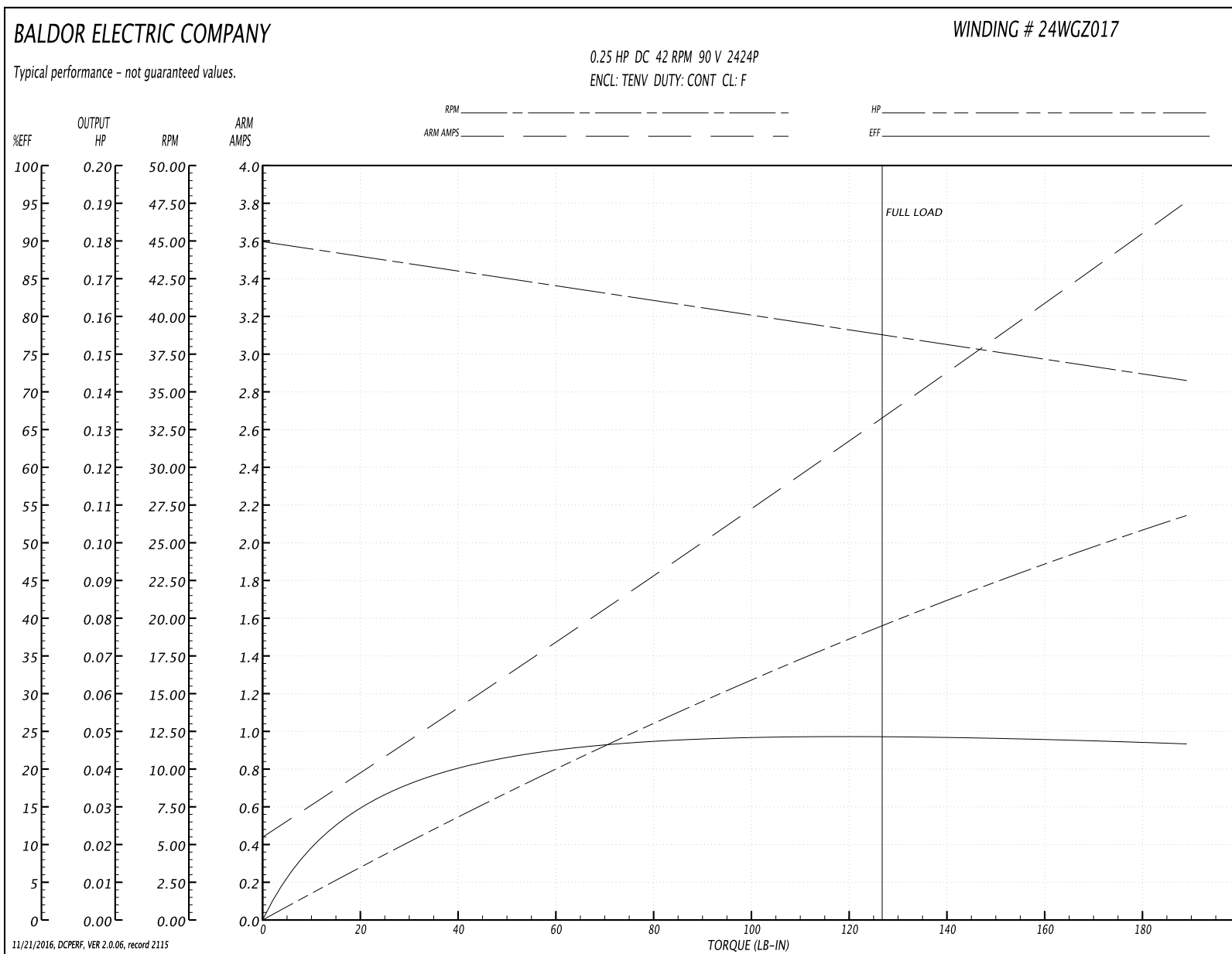
Winding: 24WGZ017-R001 Gear Type: PARALLEL	Type: 2424P Gear Style: PSL	Enclosure: TENV Gear Ratio: 60:1
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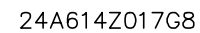
Nameplate Data		General Characteristics	
Rated Output (HP)	0.25	Armature Resistance @ 25°C	3.552 Ω
R.P.M.	42		
Armature Volts	90	Voltage Constant	32.5 v/krpm
Armature Amps	2.5		
Field Volts		Armature Inductance	13 mH
Field Amps		Armature Inertia	17.37 OI ²
Rating - Duty	40C AMB-CONT		
Form Factor	1.3		

Load Characteristics at 90 Armature Volts

Load Point	1	2	3	4	5	6	7
Armature Amps	0.46	0.95	1.52	2.09	2.66	3.23	3.8
R.P.M.	44.95	43.42	41.88	40.35	38.82	37.28	35.75
Torque (LB-IN)	0	31.52	63.02	94.54	126.04	157.56	189.08

Performance Graph at 90.0 Arm V, 0.25HP Typical performance - Not guaranteed values

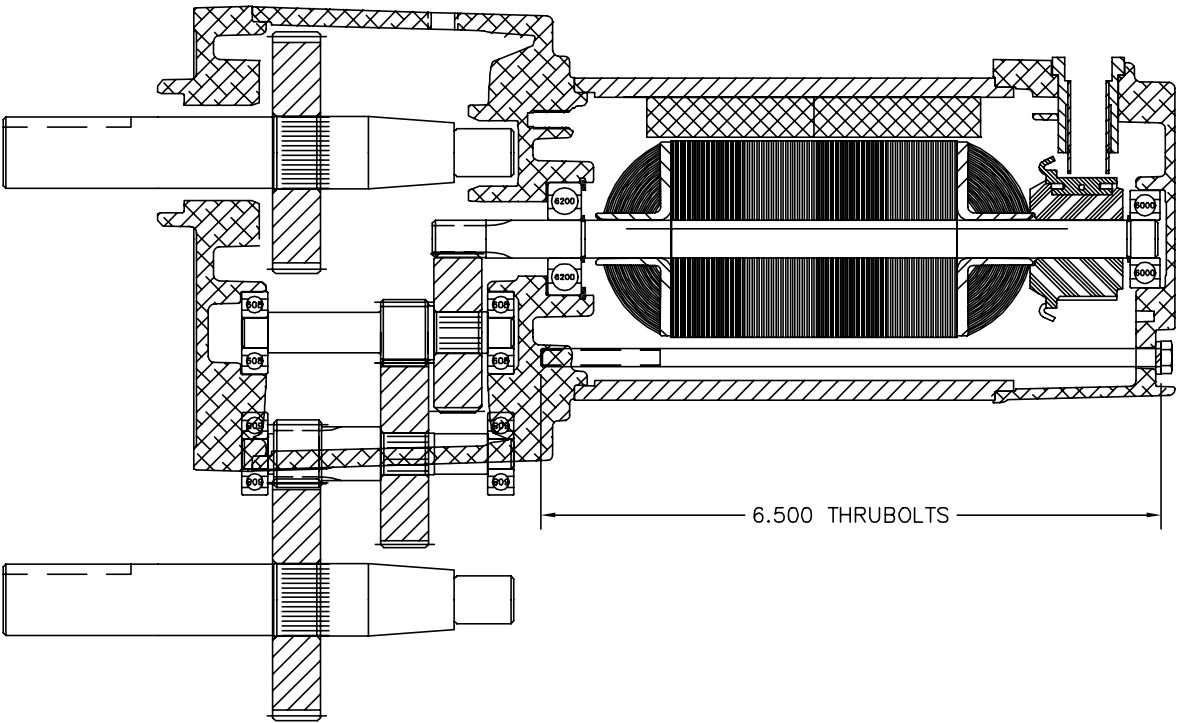




LY,24DC PSL DOM TENV .750 X 2.00 EXT. 4X 1/4 MTG HOLES

24A614Z017G8

24A614Z017G8



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: UPDATE DIMS.

REV. LTR: A	VERSION: 01	TDR: 000000404419
24A614Z017G8	FILE: \CKA\00029\548	REVISED: 10: 52: 47 08/04/2006
	MTL: -	BY: CKGLEHO

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LY,24DC PSL DOM TENV .750 X 2.00 EXT. 4X 1/4 MTG HOLES

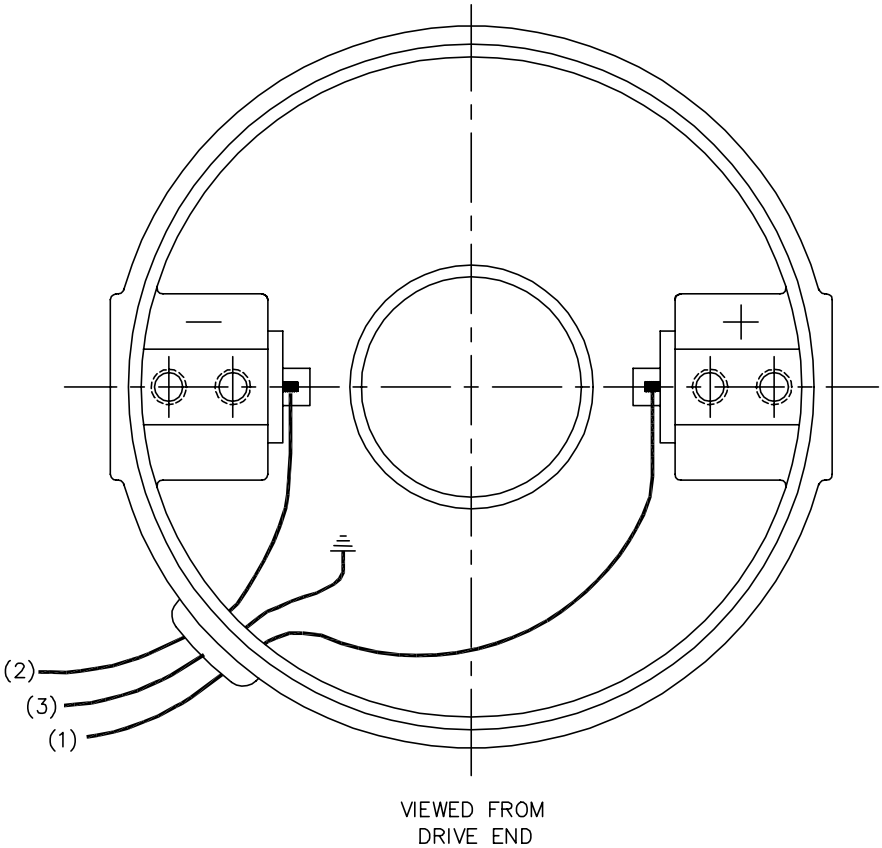
24A614Z017G8

CD1899

(1) COLOR MAY BE
RED
WHT
BLU

(2) COLOR MAY BE
BLK
BRN

(3) COLOR WHEN REQ.
GRN
GRN/YEL



REV. DESC: NEW			
REV. LTR: -	BY: PAW	REVISED: 09:06:34 09/16/2004	TDR: 341564
668100		FILE: CKA00025830	REF: CD1899
		MTL: -	

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PM,2LD,REV,TANG,CK

CD1899