

BALDOR® • RELIANCE

Product Information Packet

GP12511

G.M. J16TA 90V DC 40:1

Part Detail							
Revision:	M	Status:	PRD/A	Change #:		Proprietary:	No
Type:	DC	Prod. Type:		Elec. Spec:	24WGZ146	CD Diagram:	CD1899
Enclosure:	TENV	Mfg Plant:		Mech. Spec:		Layout:	24A657Z146G1
Frame:	K	Mounting:		Poles:	///	Created Date:	01-08-2007
Base:		Rotation:	R	Insulation:	F	Eff. Date:	08-05-2015
Field Type:		Literature:		Elec. Diagram:		Replaced By:	

Nameplate NP1220A08

CAT.NO.	GP12511		
SER.NO			
SPEC.	24A657Z146G1		
FRAME	K	TYPE	2416P
HP	.083	TE	
VOLTS	90		
AMP	1.0		
F.F.	1.43	CLASS	F
AMB.	40	DUTY	CONT
BRUSHES	2/BP5052BP01		
R.P.M.	43		
TORQ/IN LB	73		
RATIO	40:1		
APRV-CE		APRV-CUL	

Parts List		
Part Number	Description	Quantity
SA155847	SA 24A657Z146G1	1.000 EA
AA012815	AA 24A657Z146G1	1.000 EA
SR001811	SR 24A657Z146G1	1.000 EA
LC0899A07	CONNECTION LABEL, DCPM CW ROTATION CE CO	1.000 EA
BP5052BP01SP	BRUSH, GRADE R884 NATIONAL CARBON (FOR 1	1.000 EA
24EP3106A04L	EP,24DC DE CL 6200 RA VERT. THRU BOLTS	1.000 EA
HW5002A45	RETAINING RING,WALDES TRUARC N5002-118	1.000 EA
HW4600G58	SEAL,10X20X4MM PGS 25002184 VITON VT802	1.000 EA
HW4600G59	SEAL,.625" X .875" VITON VT802	1.000 EA
24EP3102A01L	EP,24DC 0DE CL 0.63P4	1.000 EA
LD0110A04	ASM,CABLE 18-3 SJTO BR,BL,G/Y, 40"	1.000 EA
WD4102A01	SR-6L-1 HEYCO STRN RELIEF OR 23MPO6L10 M	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
55XT0632G03	6-32 X 0.187 RD HD PHILLIPS, SERRATED	1.000 EA
HW5109A13	WASHER, WAVE SPRING FOR 26MM BORE SMALLE	1.000 EA
HA3100A32	THRUBOLT 10-32 X 5.500	2.000 EA
HG0048A01L	HSG,K EX	1.000 EA
RM1057	RUBBER SQUARE RING 1.424 I.D.	1.000 EA
19XN1032A12	SCREW, HEX WASHER HEAD, #10-32 X .750	2.000 EA
HA4021A05	1/16 NPSF-HX SOC PIPE PLUG TAPER DRY SEA	1.000 EA
HA1194B01	BLADDER,CJK EXPANSION	1.000 EA
15XM0632A06	SCREW, 6-32X .375, THREAD FORMING	3.000 EA

Parts List (continued)		
Part Number	Description	Quantity
BS0141A01L	HSG,K CAP W/FOOT OPEN SNAP RING 2X .2	1.000 EA
BG6203A01	6203 OPEN,C3,SLUSH	1.000 EA
19XN1032A09	SCREW, HEX WASHER HEAD, #10-32 X .563 W/	2.000 EA
HW5002A51	RET RING N5002 - 156 (WALDES) BEVELED 40	1.000 EA
RM1056	RUBBER SQUARE RING 2.739 I.D.	1.000 EA
60XM0832A10	SCREW, PAN TORX 8-32X.625 THREAD FORMING	4.000 EA
60XM0832A10	SCREW, PAN TORX 8-32X.625 THREAD FORMING	4.000 EA
BMH1910	KEY 3/16X3/16X1 1/8 AUTO X	1.000 EA
BS0141A02L	HSG,K CAP W/FOOT CLOSED NO SNAP RING	1.000 EA
HW5109A05	WASHER, WAVE SPRING FOR 40MM BORE SMALLE	1.000 EA
RM1056	RUBBER SQUARE RING 2.739 I.D.	1.000 EA
MJ1000B02	KLUB. GH6-460 GEAR OIL 1 GALLON	0.033 GA
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
ME4000	.375-.75" DIA.#SW-04 WOVEN SHAFT PROTECT	0.080 FT

Accessories		
Part Number	Description	Multiplier
BC115	FRAC DC ANALOG,115AC,50/60HZ,1.5A,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
BC141	CHASSIS MOUNT FSCN CN3000A20	E9
BR0180	PLUG IN RESISTOR	E9

DC Motor Performance Data

Record # 1699 - Typical performance - not guaranteed values

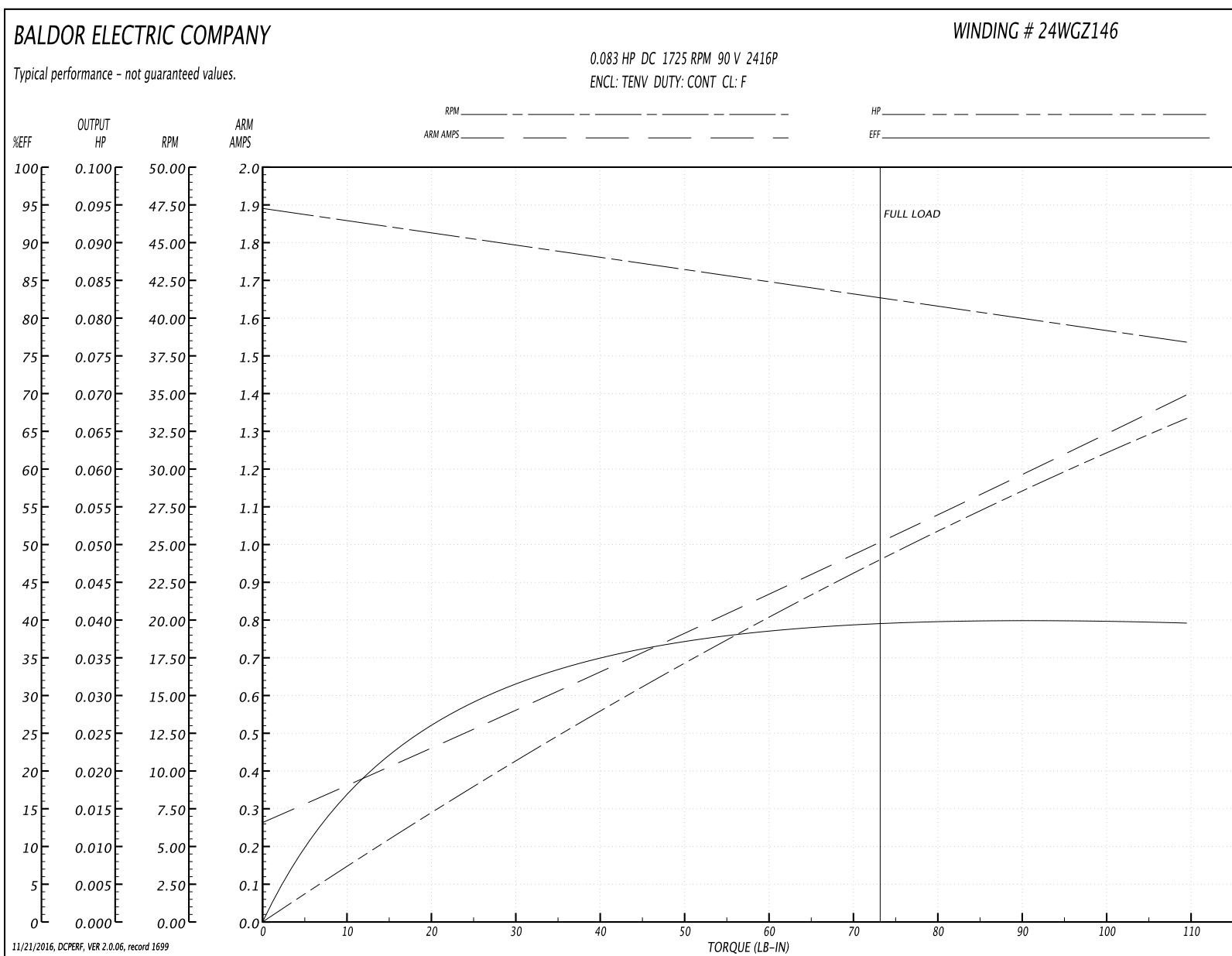
Winding: 24WGZ146-R002 Gear Type: RIGHTANGLE	Type: 2416P Gear Style: K	Enclosure: TENV Gear Ratio: 40:1
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Nameplate Data		General Characteristics	
Rated Output (HP)	0.083	Armature Resistance @ 25°C	10.55 Ω
R.P.M.	1725		
Armature Volts	90		
Armature Amps	0.9		
Field Volts		Armature Inductance	35.8 mH
Field Amps		Armature Inertia	8.706 OI ²
Rating - Duty	40C AMB-CONT		
Power Supply Code	K	Maximum allowable inrush amps	12

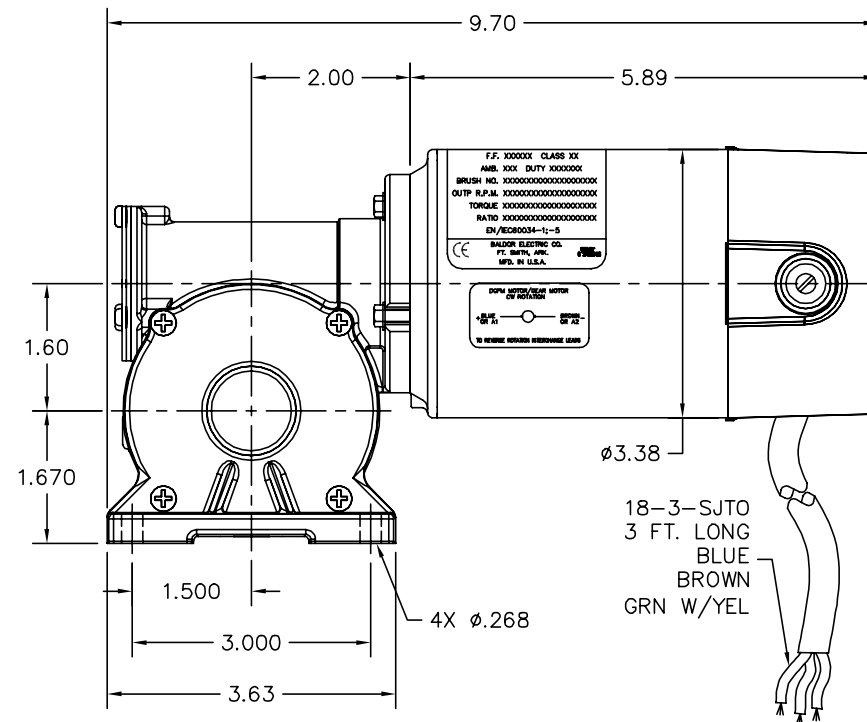
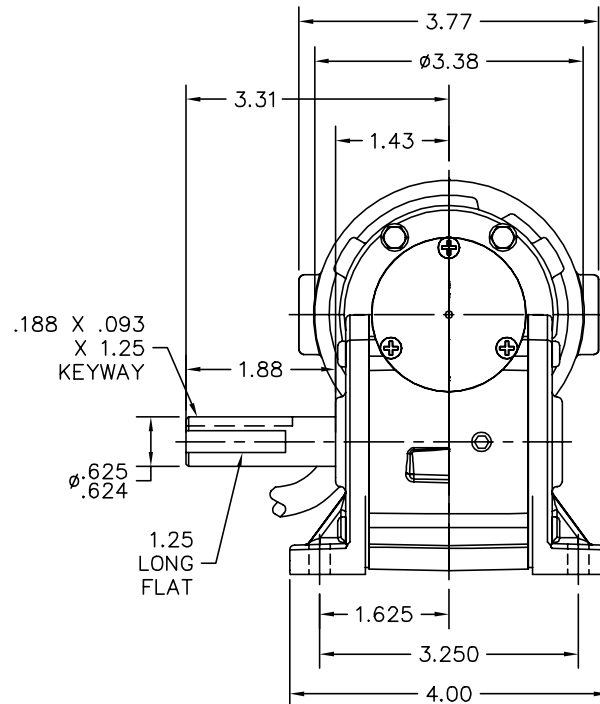
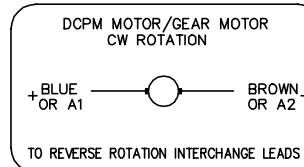
Load Characteristics at 90 Armature Volts

Load Point	1	2	3	4	5	6	7
Armature Amps	0.26	0.44	0.65	0.83	1	1.2	1.4
R.P.M.	46.8	46	44.4	43	41.4	40	38
Torque (LB-IN)	0	18.25	36.5	57.75	73	91.25	109.5

Performance Graph at 90.0 Arm V, 0.083HP Typical performance - Not guaranteed values



24A657Z146G1



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: CHANGE OUTPUT SHAFT TOL TO .625/.624

REV. LTR: C

VERSION: 03

TDR: 000000718348

FILE: \CKA\00031\339

REVISED: 10:30:22 10/27/2011

MTL: -

BY: CKJASWO

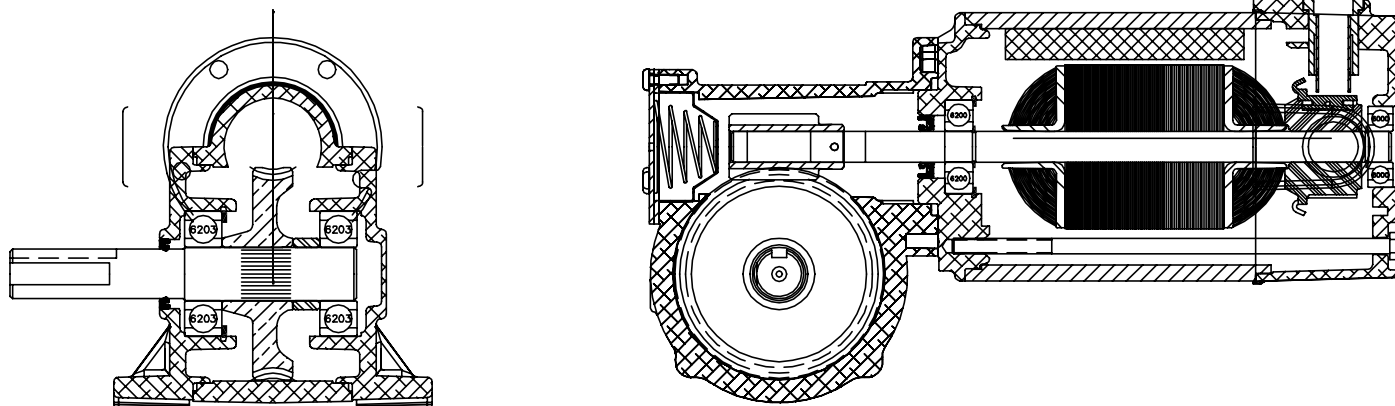
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LY,24DC K DOM TENV GP .625 KEY & FLAT (GP12511)

SH 1 of 2

24A657Z146G1

24A657Z146G1



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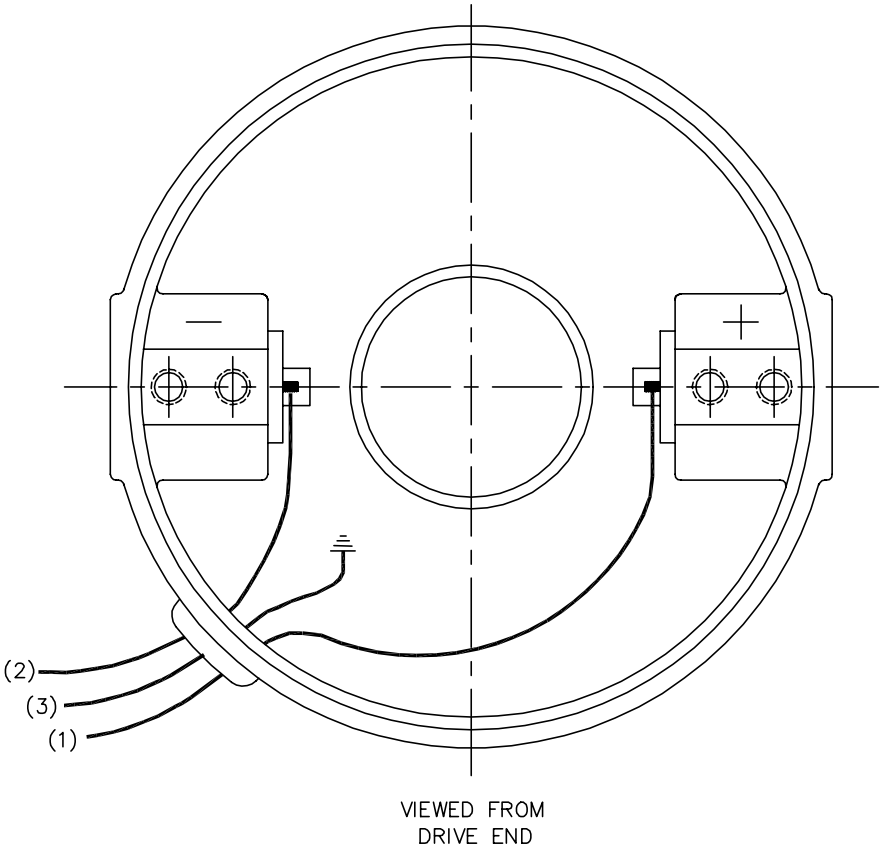
LY,24DC K DOM TENV GP .625 KEY & FLAT (GP12511)

SH 2 of 2

24A657Z146G1

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: -	

BALDOR ELECTRIC Co.

PM,2LD,REV,TANG,CK

CD1899