

PRODUCT INFORMATION PACKET



Model No: 056H17E5304

Catalog No: Y603

Explosion Proof Motor, 0.75 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 56C Frame, EPNV



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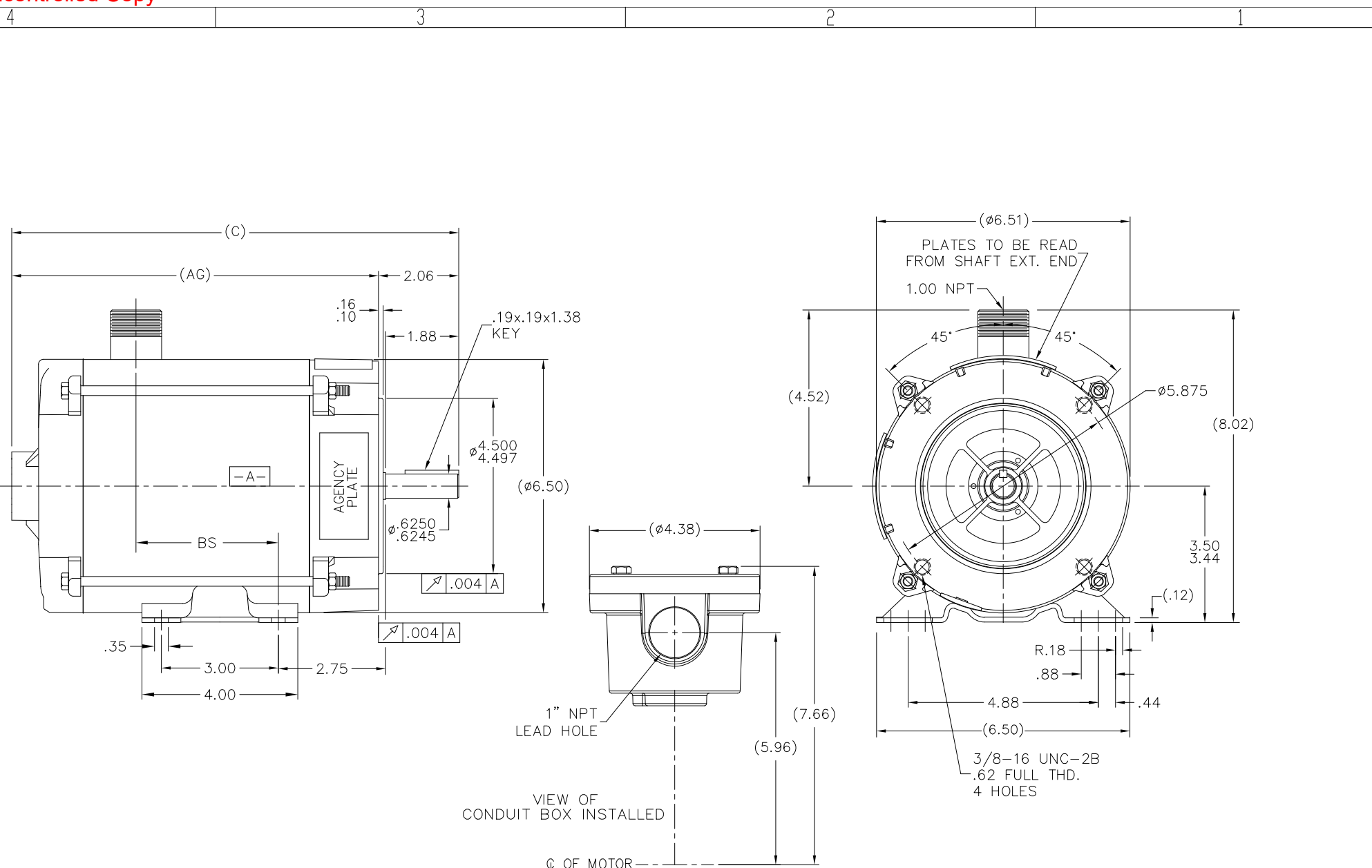


Nameplate Specifications

Phase	3	Output HP	0.75 Hp
Output KW	0.56 kW	Voltage	230/460 V
Speed	1725 rpm	Service Factor	1.0
Frame	56C	Enclosure	Explosion Proof Non Ventilated
Thermal Protection	Thermostat	Efficiency	82.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	2.4/1.2 A	Power Factor	73.5
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	P
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	DIV 1 EXP PROOF CL I GR CD CL II GR FG T3B

Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	17.5 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	13.47 in
Frame Length	7.81 in	Shaft Diameter	0.625 in
Shaft Extension	2.06 in	Assembly/Box Mounting	F3
Inverter Load	CONSTANT 1000:1		
Connection Drawing	A-EE7308T	Outline Drawing	B-105279-781



DASH	(C)	(AG)	BS
631	11.97	9.91	4.15
681	12.47	10.41	4.65
731	12.97	10.91	5.15
781	13.47	11.41	5.65
831	13.97	11.91	6.15
881	14.47	12.41	6.65
931	14.97	12.91	7.15
981	15.47	13.41	7.65

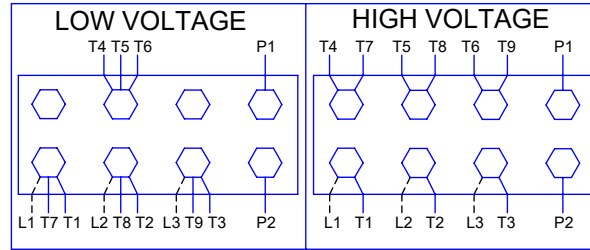
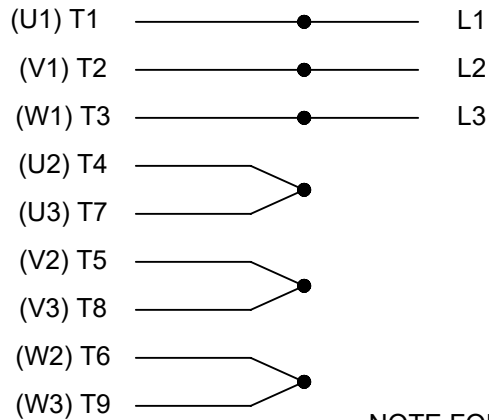
DRAWING REVISION 7	REVISION BY GKB	REV DATE/ © DATE 04/10/2025
REQUEST NUMBER ECR-0242041	APPROVED BY RK	DATE 04/10/2025
REQUEST NUMBER DESCRIPTION CHANGED FROM MARATHON TO RRX TEMPLATE		
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TOLERANCES (EXCEPT AS NOTED):			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±0.5°
.XX	±0.01	[±0.3]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	
REMOVE BURRS & BREAK SHARP			
EDGES: .003/.015 [.08/.38] X 45			
CORNER FILLETS: R.02 [.5]			
MACHINED SURFACES: 125 / 3.2			
INCH / mm			
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY			

DRAWN BY DRS
DATE 12/13/2001
APPROVED BY SAS
DATE 12/21/2001
REFERENCE
THIRD ANGLE PROJECTION

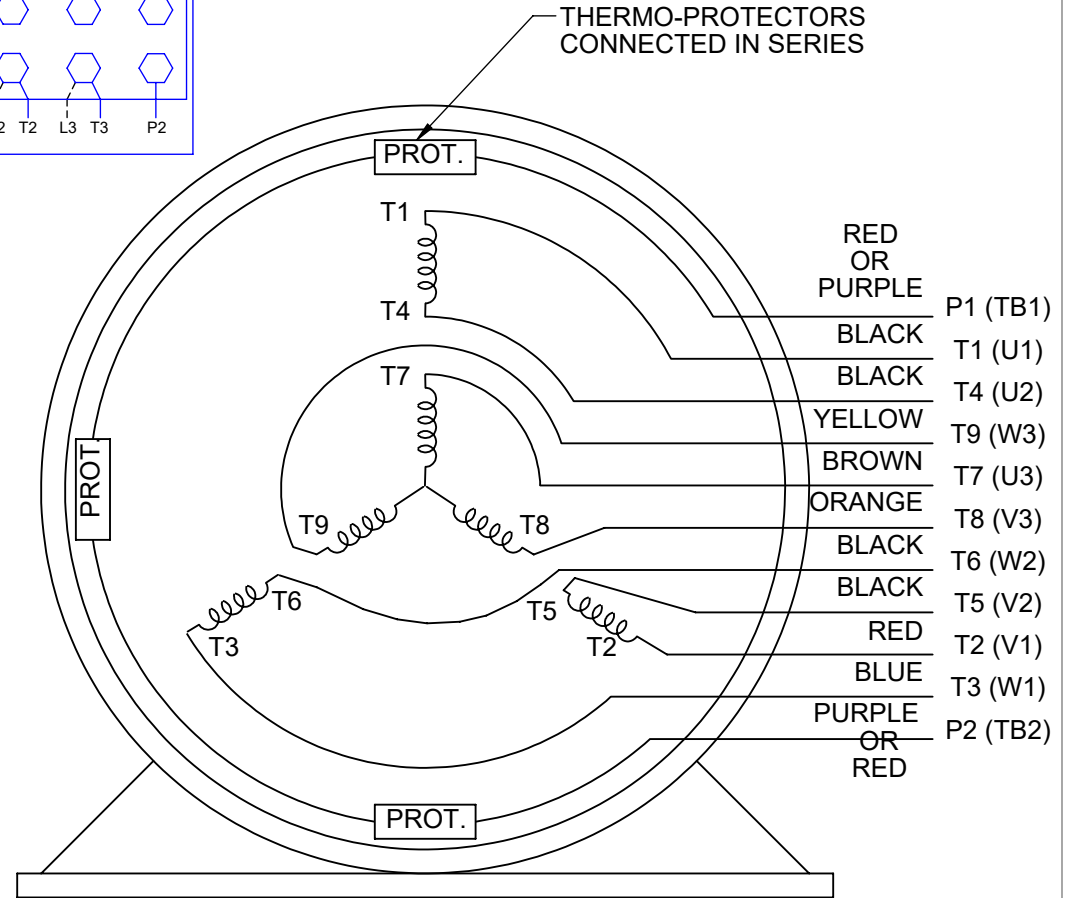
		Regal Beloit America, Inc.	
DESCRIPTION		OUTLINE - C'FACE	
		56 FR. - EXP. PR. - EPNV	
MAT'L	PROCESS/FINISH	SIZE	DRAWING NUMBER
		B	105279
SHEET	1 OF 1		

HIGH VOLTAGE



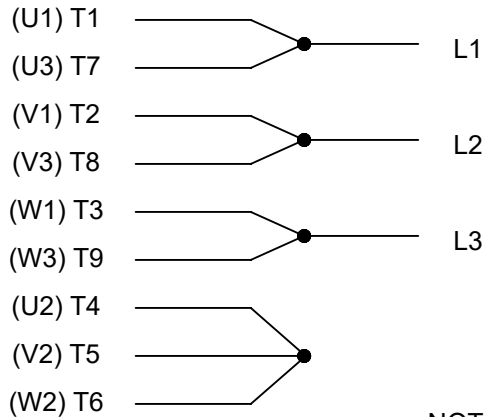
**THREE PHASE
DUAL VOLTAGE MOTOR**

THERMO-PROTECTORS
CONNECTED IN SERIES



NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE



VIEW OF TERMINAL END

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

DRAWING REVISION T	REVISION BY ZR	DATE 01-14-2019		DRAWN BY SMC	Regal Beloit America, Inc.	
ECO ECO-0159915	APPROVED BY DR	DATE 01-15-2019		DATE 05-13-1992		
ECO DESCRIPTION ADDED TERMINAL CONNECTION DIAGRAM				APPROVED BY TB	DESCRIPTION CONN DIAGRAM-INTERNAL 3 PHASE - DUAL VOLTAGE MOTOR	
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			REFERENCE EE7308/EE7300	SIZE A	DRAWING NUMBER EE7308T	SHEET 1 OF 1
			THIRD ANGLE PROJECTION			

CERTIFICATION DATA SHEET

Model#: 56H17E5304 B WINDING#: ZT449 TR 3
 CONN. DIAGRAM: A-EE7308T ASSEMBLY: F3
 OUTLINE: B-105279-781

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3/4	.56	1800	1725	56C	EPNV	P	INV

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	2.4/1.2	INVERTER ONLY	CONTINUOUS	F3	1.0	40	3300

FULL LOAD EFF: 82.5	3/4 LOAD EFF: 80	1/2 LOAD EFF: 75.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 73.5	3/4 LOAD PF: 65	1/2 LOAD PF: 52	80	SQ CAGE INV DUTY	1.5 / .8

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
2.25 LB-FT	24 / 12	9.8 LB-FT 436	10.2 LB-FT 453	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.09 LB-FT^2	0 LB-FT^2	0 SEC.	0	35 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
10.9998	7.4088	13.2678	12.2094	339.822

RM	ZREF	XR	TD	TD0
13041	378	1.5	0.006	0.125

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	EXP PROOF CL I GR C&D CL II GR F&G T3B	FALSE	NONE	BLACK (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6203	6203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 1000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED

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N
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S

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ENCODER: NONE			
NONE	NONE		
NONE	NONE	PPR	
BRAKE: NONE NONE			
NONE	P/N	NONE	
NONE	NONE		
NONE FT-LB	NONE V	NONE Hz	

DATE: 06/28/2017 12:51:34 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 2/26/2018
 Customer: _____
 Attention: _____
 Submitted by: _____



56H17E5304

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.75	0.80	0.90	1.00	1.20	1.30	1.40	12.0
Torque (ft-lb)	0.00	0.55	1.10	1.70	2.25	2.53	2.80	9.8
RPM	1800	1785	1775	1765	1755	1,749	1740	0
Efficiency (%)		62.5	75.5	80.0	82.5	82.5	82.5	
P.F. (%)	12.0	35.0	52.0	65.0	73.5	76.3	79.0	65.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	500	1140	1755	1800
Current (Amps)	12.0	11.5	7.0	1.20	0.75
Torque (ft-lb)	9.8	9.2	10.2	2.25	0.00

Information Block				
HP	0.8			
Sync. RPM	1800			
Frame	56			
Enclosure	TENV			
Construction	TTR			
Voltage	230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	P			
Service Factor	1.15			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.09 Lb-Ft ²			
Ref Wdg	ZT449 TR			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 1000:1			
Outline Dwg	B-105279-781			
Conn. Diag	A-EE7308T			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
11.0000	7.4090	13.2680	12.2090	339.8220

