

PRODUCT INFORMATION PACKET

Model No: 056T17F5358

Catalog No: D457

1.50 HP Brake Motor, 3 phase, 1800 RPM, 208-230/460 V, 56HC Frame, TEFC
NEMA Definite Purpose AC Brake Motors





Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	208-230/460 V
Current	5.0-4.8/2.4 A	Speed	1725 rpm
Service Factor	1.15	Phase	3
Efficiency	80 %	Power Factor	74
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	K
Frame	56HC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	43

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	12.1 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	16.72 in
Frame Length	7.06 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY

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MADE BY *SPB* **DATE** 1-16-70
CHECKED BY _____ **DATE** _____
APPROVED BY _____ **DATE** _____

SO NO _____ **NO. SPECIAL** _____
DESCRIPTION _____ **STYLE** _____
PART NUMBER _____ **RAW MAT'L CODE** _____
PRODUCT REF _____ **DRAWING REF. NO.** _____
DATE _____ **DATE** _____

SHEET 1 **OF** 1 **X STYLE OF PART** _____
SHAFT APPROX (1) (9) **QTY** 90
RAW MAT'L CODE _____ **STYLE** _____

ALL DIMS _____
GRINDING _____
FINISH _____
REMARKS _____

NO	DESCRIPTION	DATE	SO NO	NO. SPECIAL	STYLE	RAW MAT'L CODE	DRAWING REF. NO.	DATE
1	V70HYPPOWER		B/M 100674		B 0701-WRE			
2								
3								
4								
5	DELETE: THE FOLLOWING PART.							
6								

NO	DESCRIPTION	DATE	SO NO	NO. SPECIAL	STYLE	RAW MAT'L CODE	DRAWING REF. NO.	DATE
7	SHAFT, L.S.		23-606827 E		B 0701-WRE			
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								

ADD: THE FOLLOWING PART.

20 SHAFT, L.S. 235740290 B 0701-WRE
 21 SHAFT, L.S. " "

NO	DESCRIPTION	DATE	SO NO	NO. SPECIAL	STYLE	RAW MAT'L CODE	DRAWING REF. NO.	DATE
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								

REVISIONS AND ISSUES
 R SITE S.I.V. M NUMBER B 0701-WRE
 T DATE 6-26-70 BY *SPB*
 S IZ 329 SEQ NO S104976 ISSUE 1

USE WITH
 SIZE LINE SERIES TYPE SEQ. NO ISSUE REV. BILL OF MAT'L. NO.

SCANNED "B-SIZE DRAWING"



NO.		REVISION		BY & DATE		CHK		ANG		FINISH		PREV					
5	CHG TO REGAL LOGO	SL	09/10/2015	AB								DRAWN RM	11/20/1990				
4	REVISED IEC NOTATIONS	MSG	11/15/2011	CMN	.X	±.1						CHK ML	11/21/1990				
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG	5/10/2010	MJS	.XX	±.02						APPD SAS	04/24/2003				
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH	04/24/2003	DRS	.XXX	±.005						SCALE	1=1				
1	REDRAWN	RM	11/20/1990		.XXXX	±.0005						REF					
												FMF					
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT						RFP		CAD FILE	ee7308	SIZE	A	DRAWING NO.	EE7308	PAGE	OF	REV.	5
						DIST	WP										



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____ CUSTOMER P.O. #: _____
 ORDER #: _____ REFERENCE MODEL #: 56TT7E53S8
 CONN. DIAGRAM: A-E7308 CAT #: D457
 WINDING: A-104476-706 ZT416 FR 3 CUSTOMER PART #: _____
 SPEED: _____ MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN			
1.5	1.1	1800	1735	56HC	TEFC	TFR	K	B			
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.		
3	60/50	208-230/460#190/380	5-4.8/2.4&4.4/2.2	ACROSS THE LINE	CONT	B	1.15	40	3300		
F.L. EFF		3/4 LD EFF		1/2 LD EFF		ELECT. TYPE					
F.L. PF 74.0		3/4 LD PF 62.5		1/2 LD PF 50.0		SQ CAGE IND RUN					
F.L. TORQUE		LR AMPS @ 460 V		B.D. TORQUE		F.L. RISE (° C)					
4.5 LB-FT		17.5		14.5 LB-FT 322%		18.2 LB-FT 404% 75					
@ 3 FT.		POWER		ROTOR WK ²		SAFE STALL TIME		STARTS/HOUR		MOTOR WGT	
62 DBA		71 DBA		0.07 LB-FT ²		10 LB-FT ²		12 SEC.		2 30 LB.	

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE	RIGID	HORIZONTAL	NO	NONE	NO	NONE	GRAY (POWDER)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE ODE BALL 6203	POLYREX EM	STANDARD 56	NONE	NONE	144	STRESSPROOF (C-22)	ROLLED STEEL

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA
R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT ODE
7.56	5.67	9.45	7.56	168.21	0.150	

* _____	INVERTER TORQUE: NONE
N _____	INV. HP SPEED RANGE: NONE
O _____	ENCODER: NONE
T _____	NONE
E _____	NONE
S _____	NONE
* _____	BRAKE: STEARINS
	56,000 NEMA 2
	FT-LB: 10
	VOLTAGE: 208-230/460-190/380
	UL: V-INS, CONST UL REC
	HZ:

PREPARED BY: VINAYAK YERATE
DATE: 9/8/2017

FORM: 3531 REV. 4 2/27/06



Submittal

Data @ 460 V

Date: 9/8/2017
 Customer:
 Attention:
 Submitted by: VINAYAK VERATE

Motor Load Data

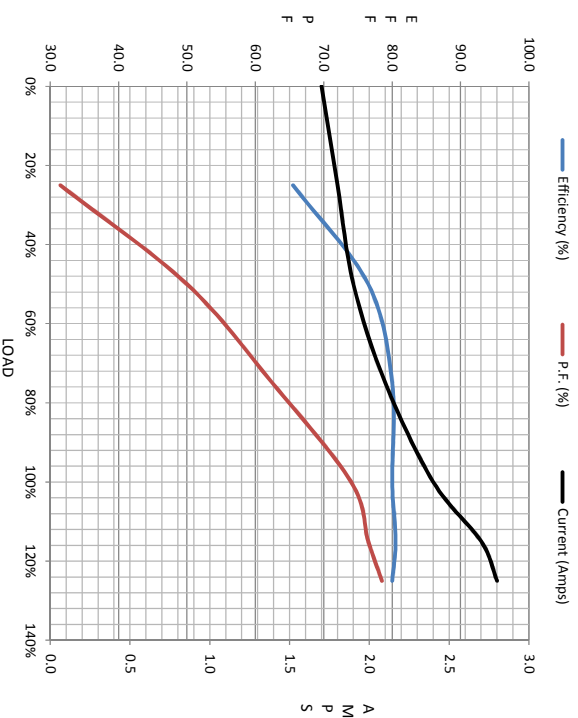
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.70	1.80	1.90	2.10	2.40	2.70	2.80	17.5
Torque (ft-lb)	0.00	1.10	2.20	3.3	4.5	5.3	5.7	14.5
RPM	1800	1785	1770	1750	1735	1725	1710	0
Efficiency (%)		65.5	76.5	80.0	80.0	80.5	80.0	
P.F. (%)	10.5	31.5	50.0	62.5	74.0	76.5	78.5	71.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1215	1735	1800
Current (Amps)	17.5	16.0	12.0	2.40	1.70
Torque (ft-lb)	14.5	14.5	18.2	4.5	0.00

Information Block

HP	1.5			
Sync. RPM	1800			
Frame	56			
Enclosure	TEFC			
Construction	THR			
Voltage	208-230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.0			
Temp Rise @ FL	75 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk's	0.07 Lb-Ft			
Ref Wdg	Z1416 FR			
Sound Pressure @ 1M	62 dbA			
VFD Rating	NONE			
Outline Dwg	A-104476-706			
Conn. Diag	A-E7308			
Additional Specifications:				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
7.5600	5.6700	9.4500	7.5600	168.2100



Speed -Torque Curve

