PRODUCT INFORMATION PACKET



Model No: 286TSTDR16002

Catalog No: E1010

XRI® General Purpose General Purpose Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V,

3600 & 3000 RPM, 286TS Frame, DP



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Nameplate Specifications

Phase	3	Output HP	40 & 30 Hp
Output KW	30.0 & 22.4 kW	Voltage	230/460 & 200/400 V
Speed	3540 & 2925 rpm	Service Factor	1.15 & 1.15
Frame	286TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	92.4 & 91.0 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	90/45 & 105/52.5 A	Power Factor	90.1
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	F
Drive End Bearing Size	6213	Opp Drive End Bearing Size	6207
UL	Recognized	CSA	Υ
CE	N	IP Code	22
Number of Speeds	1		
	·		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	тѕ	Overall Length	22.85 in
Shaft Diameter	1.625 in	Shaft Extension	3.25 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	18722701-001-S01	Connection Drawing	80022801

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Uncontrolled Copy 8 6 0003531 K.PALOMO 01-07-09 C.CONTRERAS 01-07-09 -10.20-- 8.24 -- 22.85 -**-** 3.72 --ø11.93-— 3.25 — MOTOR NAMEPLATE -1.88 $-3/8 \times 3/8$ KEY -10.32-14.82 13.00 2.81 A .002 7.000 6.940 KNOCKOUT FOR 1 1/2" CONDUIT (ø2.00 HOLE) 0 8-HOLES 17/32(ø.531) 1.50 - 3.81 1.84 - 4.75 --13.26-MOTOR DESCRIPTION: 3 PHASE OPEN DRIPPROOF STEEL SHELL 284TS OR 286TS MOUNTING. 1- CONDUIT BOX MAY BE ROTATED IN 90' INCREMENTS. OTHER MOUNTING ORIENTATIONS ARE ACCEPTABLE; HOWEVER WHEN MOUNTED OTHER THAN HORIZONTAL; MOTOR WILL NOT BE DRIPPROOF AS DEFINED BY NEMA. 2- MOTOR IS SUITABLE FOR FIELD CONVERSION FROM AN F1 TO AN F2 CONDUIT BOX LOCATION. 3- MOTOR VENTILATION: AIR INTAKE THROUGH OPENINGS IN THE FACE OF EACH BRACKET AND EXHAUSTED THROUGH GEOMETRIC CHARACTERISTICS & SYMBOLS

// FLATNESS
- STRAIGHTNESS
- ANGULARITY
| PERPENDICULARITY (SQUARENESS)
// PARALLELISM
O ROUNDNESS (CIRCULARITY)
// CYLINDRICITY
- PROFILE OF ANY SURFACE
- PROFILE OF ANY LINE
// RUNOUT OF ANY LINE
// SYMMETRY UNLESS OTHERWISE SPECIFIED
DIM. TOLERANCES ARE AS FOLLOWS:

X XX XXX XXXX
INCH ±1, ±.02 ±.005 ±.0005
mm ±0.5 ±0.13 ±0.013
ANG. ±.50 DEG
REMOVE BURRS & BREAK SHARP EDGES:
INCH. 003-0.15 mm 0.1-0.4
CORNER FILLETS TO:
INCH. 020 mm 0.5
MACHINE SURPACES:
INCH. 125 mm 3.2

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COMPANY
A DIVISION OF A. O. SMITH CORPORATION Smith Innovation has a name 01-19-04 THE VENT SLOTS ON EACH END OF THE SHELL. 01-19-04 THIRD ANGLE PROJECTION FORMAT REV F OUTLINE CONFIDENTIAL: THIS DRAWING AND ITS INFORMATION ARE THE EXCLUSIVE AND CONFIDENTIAL PROPERTY OF A.O. SMITH CORP. AND ARE NOT TO BE DISCLOSED DUPLICATED, DISTRIBUTED OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF A.O. SMITH CORP.

—ALL RIGHTS RESERVED. ASME Y14.5M 1994 18722701-001 SCALE NONE METRIC DIMS. SHOWN IN [BRACKETS] 6 3 of 7

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A DIVISION OF A. O. SMITH CORPORATION **Smith** 01-19-04 尺寸公差如下:

英寸 ±.1 ±.02 ±.005 ±.0005
毫米 ±.0 5 ±0.13 ±0.013
角度 ±.50 度
清理毛刺和失梭
英寸 .003-015 毫米 0.1-0.4
内國角
英寸 .020 毫米 0.5
表面粗糙度
英朝 125 米刺・3.2 THE VENT SLOTS ON EACH END OF THE SHELL. | 01-19-04 | 图纸格式发布日期 EDS DATE | 图纸格式版本 F OUTLINE 机密:本图纸及相关信息所有权归A. O. SMITH公司所有。 未经A.O.SMITH公司书面授权,不得泄露、复制、传播或作 D 18722701-001 其他用途。--版权所有 *制尺寸显示在[] 6 5 of 7

CERTIFICATION DATA SHEET

286TSTDR16002 AA WINDING#: BJR2T01 NONE 3 Model#: ASSEMBLY: CONN. DIAGRAM: 80022801 F1/F2 CAPABLE

OUTLINE: 18722701-001

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYI	NC. RPM	F.L. RPM	FRAME	ENCLOS	SURE	VA CODE	DESIGN
40&30	30&22	2.4	3600	3540&2925	286TS	DP		F	В
PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION

	PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
	3	60/50	230/460#200/	90/45&105/52.	ACROSS THE	CONTINUOU	F4	1.15/1.15	40	3300
L			400	5	LINE	S				

FULL LOAD EFF: 92.4&91.0	3/4 LOAD EFF: 94.9	1/2 LOAD EFF: 93.8	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 90.1&90.2	3/4 LOAD PF: 84.3	1/2 LOAD PF: 77.2	92.4	SQ CAGE IND RUN	20 / 10

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
59 LB-FT	580 / 290	95 LB-FT 161	190 LB-FT 322	-

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
80 dBA	90 dBA	0 LB-FT^2	- LB-FT^2	20 SEC.	2	0 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME
DE	OPE					MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	TS	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6213	6207						

THERMO-PROTECTORS			THERMISTORS	CONTROL	SPACE /n HEATERS	
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE

ENCODER: NONE NONE NONE NONE NONE PPR

BRAKE: NONE NONE NONE P/N NONE NONE NONE

NONE FT-LB NONE V NONE Hz

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> DATE: 06/27/2017 02:00:20 AM FORM 3531 REV.3 02/07/99 ** Subject to change without notice.



