

# ABB BALDOR RELIANCE III

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## Customer information packet

### SPM44304TS-4

300HP, 1790RPM, 3PH, 60HZ, L449TS, A44192M, TE

Class - CLI GP A,B,C,D; CLII GP F,G

Division - Division II

**Specifications**

|                               |                                       |
|-------------------------------|---------------------------------------|
| Enclosure                     | TEFC                                  |
| Frame                         | L449TS                                |
| Frame Material                | Iron                                  |
| Frequency                     | 60.00 Hz                              |
| Haz Area Class and Group      | CLI GP A,B,C,D; CLII GP F,G           |
| Haz Area Division             | Division II                           |
| Motor Letter Type             | Three Phase                           |
| Output @ Frequency            | 300.000 HP @ 60 HZ                    |
| Phase                         | 3                                     |
| Synchronous Speed @ Frequency | 1800 RPM @ 60 HZ                      |
| Voltage @ Frequency           | 460.0 V @ 60 HZ                       |
| Agency Approvals              | CURUSEEV<br>CCSAUSEEV<br>NEMA PREMIUM |
| Ambient Temperature           | 40 °C                                 |
| Auxiliary Box                 | NO AUXILLARY BOX                      |
| Base Indicator                | Rigid                                 |
| Bearing Grease Type           | Polyrex EM (-20F +300F)               |
| Current @ Voltage             | 342.000 A @ 460.0 V                   |
| Design Code                   | B                                     |
| Duty Rating                   | CONT                                  |
| Efficiency @ 100% Load        | 96.8 %                                |
| Feedback Device               | NO FEEDBACK                           |
| Frame Prefix                  | L                                     |
| Heater Indicator              | No Heater                             |
| High Voltage Full Load Amps   | 342.0 a                               |
| Insulation Class              | H                                     |
| Inverter Code                 | Inverter Duty                         |
| KVA Code                      | H                                     |
| Lifting Lugs                  | Standard Lifting Lugs                 |
| Max Speed                     | 2700 rpm                              |
| Motor Lead Quantity/Wire Size | 12 @ 1 AWG                            |

**Part Detail**

|              |                      |
|--------------|----------------------|
| Revision     | D                    |
| Type         | AC                   |
| Mech. spec.  |                      |
| Base         |                      |
| Status       | PRD/A                |
| Elec. spec.  | A44WG6743            |
| Layout       | 617439-226           |
| Eff. date    | 01-28-2025           |
| CD Diagram   | 416820-036           |
| Poles        | 04                   |
| Leads        | 3#1 (04 per group) Y |
| Proprietary  | False                |
| Created date | 03-22-2024           |

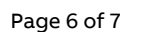
|                                 |                    |
|---------------------------------|--------------------|
| <b>Motor Standards</b>          | <b>NEMA</b>        |
| <b>Motor Type</b>               | A44192M            |
| <b>Mounting Arrangement</b>     | F1                 |
| <b>Number of Poles</b>          | 4                  |
| <b>Overall Length</b>           | 56.71 IN           |
| <b>Power Factor</b>             | 86                 |
| <b>Product Family</b>           | General Industrial |
| <b>Pulley End Bearing Type</b>  | Ball               |
| <b>Pulley Face Code</b>         | Standard           |
| <b>Service Factor</b>           | 1.15               |
| <b>Shaft Diameter</b>           | 3.375 IN           |
| <b>Shaft Ground Indicator</b>   | No Shaft Grounding |
| <b>Shaft Rotation</b>           | Reversible         |
| <b>Shaft Slinger Indicator</b>  | Shaft Slinger      |
| <b>Speed</b>                    | 1790 rpm           |
| <b>Speed Code</b>               | Single Speed       |
| <b>Starting Method</b>          | Direct on line     |
| <b>Thermal Device - Bearing</b> | None               |
| <b>Thermal Device - Winding</b> | None               |

**Nameplate**

|                  |  |
|------------------|--|
| NP2496L          |  |
| MOBIL POLYREX EM |  |
|                  |  |

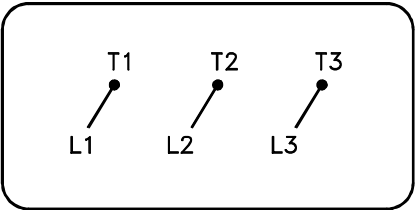
**NP4562L**

|                  |              |               |      |                         |                         |      |       |             |             |                        |                 |                 |     |    |
|------------------|--------------|---------------|------|-------------------------|-------------------------|------|-------|-------------|-------------|------------------------|-----------------|-----------------|-----|----|
| CAT NO           | SPM44304TS-4 |               |      | SPEC NO.                | A44-5012-6743           |      |       |             | I.P.        | 55                     |                 |                 |     |    |
| HP               | 300          | AMPS          | 342  |                         | VOLTS                   | 460  |       | DESIGN      | A           |                        |                 |                 |     |    |
| FRAME SIZE       | L449TS       | RPM           | 1790 |                         | MAX RPM                 | 2700 | HZ    | 60          | AMB         | 40                     |                 |                 |     |    |
| D.E. BRG.        | 90BC03J30X   |               | PH.3 | 3                       | DUTY                    | CONT |       | INSUL.CLASS | H           |                        |                 |                 |     |    |
| O.D.E. BRG.      | 90BC03J30X   |               |      | TYPE P                  | P                       | ENCL | TEFC  | SF          | 1.15        | CODE                   | H               |                 |     |    |
| POWER FACTOR     | 86           | MAX CORR KVAR |      | 62                      | NEMA NOM EFFICIENCY     |      |       |             | 96.8        |                        | MOTOR WEIGHT    | LBS             |     |    |
| CL.I,DIV 2,GRP:  | A,B,C,D      | T.CODE        | T2C  |                         | CL.1,ZONE 2,GRP:        |      |       |             | IIA,IIB,IIC | T=                     | 230             | INVERTER T.CODE | T2C |    |
| CL.II,DIV 2,GRP: | F,G          | T.CODE        | T3C  |                         | CL II ZONE 22 GRPS IIIB |      |       |             | T=          | 160                    | INVERTER T.CODE |                 | T3C |    |
| ID LOGO          | INV TYPE:    | VPWM          | CT   | 30                      | TO                      | 60   | VT    | 3           | TO          | 60                     | CHP             | 60              | TO  | 90 |
| ID LOGO          | 1.0 SF VPWM  |               | WK2  | 126                     | LBFT2                   |      | SL HZ | 0.3         |             | MAG CUR                |                 | 133             |     |    |
| SER.NO.          |              |               |      | MEETS INTENT OF IEEE-45 |                         |      |       |             |             | FOR WEATHER PROTECTION |                 |                 |     |    |



416820-036

A-C MOTOR  
CONNECTION DIAGRAM  
STANDARD 3 LEAD                      CONNECTED



(N.P. 1575-BA)

416820-036

|                                      |             |                                |
|--------------------------------------|-------------|--------------------------------|
| REV. DESC: LOADED TO BUS, C/R 335225 |             |                                |
| REV. LTR: -                          | VERSION: 00 | TDR: 000000538207              |
| FILE: \MGA\00000\682                 |             | REVISED: 11: 54: 06 04/30/2010 |
| MTL: -                               |             | BY: RAGRA                      |

**BALDOR**

CONN DIAG - STANDARD 3 LEAD  
SH 1 of 1