

# ABB BALDOR RELIANCE III

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## Customer information packet

### CFSSP5M3674T-E-G

7.5HP, 1800RPM, 3PH, 60HZ, 184TC, 3648B, TEFC

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| <b>Enclosure</b>                      | TEFC                                    |
| <b>Frame</b>                          | 184TC                                   |
| <b>Frame Material</b>                 | Stainless Steel                         |
| <b>Frequency</b>                      | 60.00 Hz                                |
| <b>Haz Area Class and Group</b>       | None                                    |
| <b>Haz Area Division</b>              | Not Applicable                          |
| <b>Motor Letter Type</b>              | Brushless Wound Field PM Rotor          |
| <b>Output @ Frequency</b>             | 7.500 HP @ 60 HZ                        |
| <b>Phase</b>                          | 3                                       |
| <b>Synchronous Speed @ Frequency</b>  | 1800 RPM @ 60 HZ                        |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ      |
| <b>Agency Approvals</b>               | WEEE<br>C UR US                         |
| <b>Ambient Temperature</b>            | 40 °C                                   |
| <b>Auxiliary Box</b>                  | NO AUXILLARY BOX                        |
| <b>Auxiliary Box Lead Termination</b> | None                                    |
| <b>Base Indicator</b>                 | Rigid                                   |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                 |
| <b>Blower</b>                         | None                                    |
| <b>Current @ Voltage</b>              | 17.600 A @ 230.0 V<br>8.800 A @ 460.0 V |
| <b>Design Code</b>                    | -                                       |
| <b>Drip Cover</b>                     | No Drip Cover                           |
| <b>Duty Rating</b>                    | CONT                                    |
| <b>Efficiency @ 100% Load</b>         | 93.0 %                                  |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated               |
| <b>Feedback Device</b>                | NO FEEDBACK                             |
| <b>Front Shaft Indicator</b>          | None                                    |
| <b>Heater Indicator</b>               | No Heater                               |
| <b>High Voltage Full Load Amps</b>    | 8.8 a                                   |
| <b>Insulation Class</b>               | H                                       |

**Part Detail**

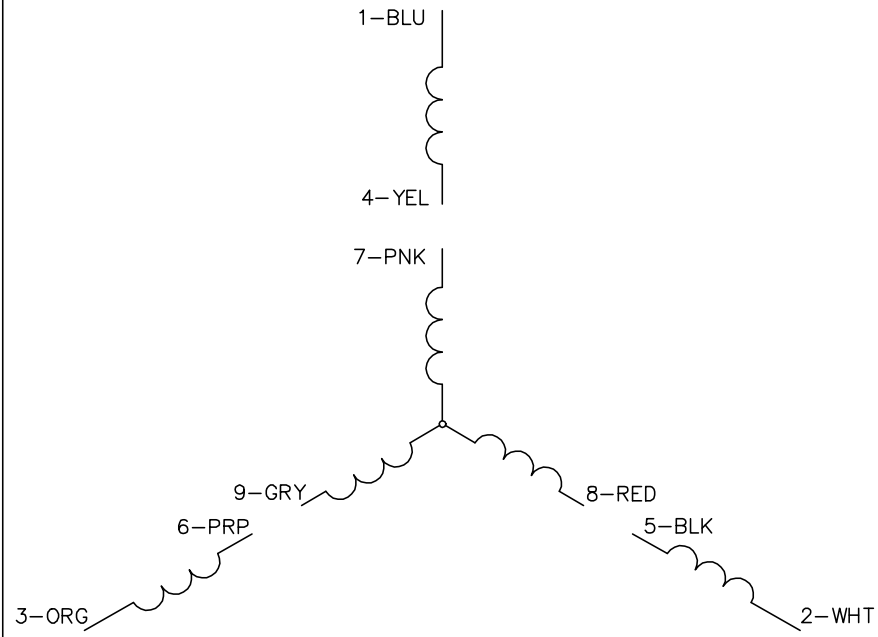
|                     |            |
|---------------------|------------|
| <b>Revision</b>     | D          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 36R830     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 36WGL129   |
| <b>Layout</b>       | 36LYR830   |
| <b>Eff. date</b>    | 06-24-2025 |
| <b>CD Diagram</b>   | CD0005A25  |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#12 Y     |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 09-25-2024 |

|                               |                        |
|-------------------------------|------------------------|
| Inverter Code                 | 03                     |
| KVA Code                      | -                      |
| Lifting Lugs                  | Standard Lifting Lugs  |
| Locked Bearing Indicator      | Locked Bearing         |
| Max Speed                     | 4000 rpm               |
| Motor Lead Quantity/Wire Size | 9 @ 12 AWG             |
| Motor Lead Termination        | Flying Leads           |
| Motor Standards               | NEMA                   |
| Motor Type                    | 3648B                  |
| Mounting Arrangement          | F1                     |
| Number of Poles               | 4                      |
| Overall Length                | 18.93 IN               |
| Power Factor                  | 94                     |
| Product Family                | WD All SS Encapsulated |
| Pulley End Bearing Type       | Sealed Bearing         |
| Pulley Face Code              | C-Face                 |
| Pulley Shaft Indicator        | Standard               |
| Rodent Screen                 | None                   |
| RoHS Status                   | ROHS COMPLIANT         |
| Service Factor                | 1.15                   |
| Shaft Diameter                | 1.125 IN               |
| Shaft Ground Indicator        | Shaft Grounding        |
| Shaft Rotation                | Reversible             |
| Shaft Slinger Indicator       | Shaft Slinger          |
| Speed                         | 1800 rpm               |
| Speed Code                    | Single Speed           |
| Starting Method               | Direct on line         |
| Thermal Device - Bearing      | None                   |
| Thermal Device - Winding      | None                   |
| Vibration Sensor Indicator    | No Vibration Sensor    |
| Winding Thermal 1             | None                   |
| Winding Thermal 2             | None                   |

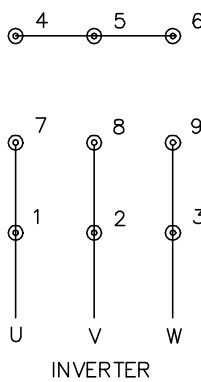
**Nameplate**

| NP4427DLT49A  |                             |     |    |        |           |      |              |           |       |      |   |    |
|---------------|-----------------------------|-----|----|--------|-----------|------|--------------|-----------|-------|------|---|----|
| CAT #         | CFSSP5M3674T-E-G            |     |    |        |           |      | WT           | 142       | LBS   |      |   |    |
| SPEC          | 36R830L129G1                |     |    |        |           |      | ENCL         |           | TEFC  |      |   |    |
| SER #         |                             |     |    |        | FRAME     |      | 184TC        |           |       | IP   |   | 69 |
| HP            | 7.5                         |     |    | RATING |           |      | 40C AMB-CONT |           |       |      |   |    |
| NEMA NOM. EFF | 93                          | PF  | 94 | HZ     | 60        |      | PH           | 3         | CLASS |      | H |    |
| VOLTS         | 230/460                     |     |    |        | AMPS      |      | 18.6/9.3     |           |       |      |   |    |
| SER.F.        | 1.15                        | RPM |    | 1800   |           |      | MAX RPM      |           |       | 4000 |   |    |
| BEMF (V)      | 103/207                     |     |    |        | RS (OHMS) |      |              | 0.32/1.26 |       |      |   |    |
| LD(MH)        | 6.3/25.0                    |     |    |        | LQ(MH)    |      | 22.9/91.6    |           |       |      |   |    |
| VPWM          | CHP                         | 60  |    | TO     |           | 133  |              |           |       |      |   |    |
| CT            | 6                           | TO  |    | 60     |           | VT   | 6            | TO        |       | 60   |   |    |
| MATCHED INV   | ACS380-04XX-25A0-2 / 12A6-4 |     |    |        |           |      |              |           |       |      |   |    |
| DE            | 6206                        |     |    | ODE    |           | 6305 |              |           | YR    |      |   |    |
|               |                             |     |    |        |           |      |              |           |       |      |   |    |
|               |                             |     |    |        |           |      |              |           |       |      |   |    |

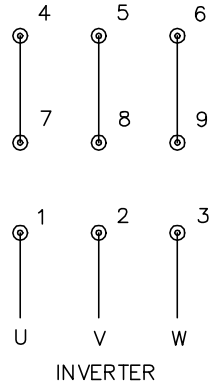
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LOW VOLTAGE  
(2Y)



HIGH VOLTAGE  
(1Y)



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
  - 2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
  - 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|                      |                              |                   |
|----------------------|------------------------------|-------------------|
| REV. DESC: NEW       |                              |                   |
| REV. LTR: -          | VERSION: 00                  | TDR: 000001135746 |
| FILE: \AAA\00253\082 | REVISED: 01:10:57 03/30/2020 | BY: ENMARSO       |
| MTL: -               | © □                          |                   |

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, ECS  
SH 1 of 1

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