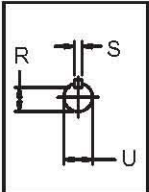


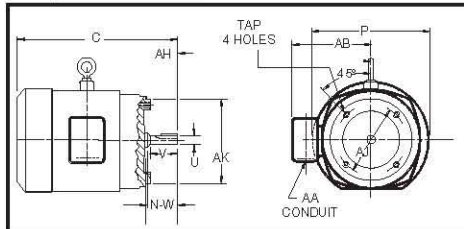
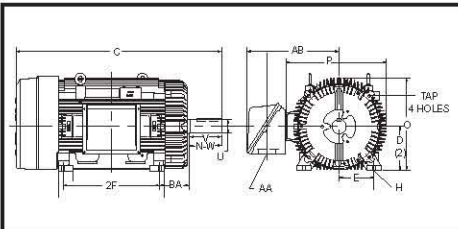
NEMA

FRAME REFERENCE CHART

- Dimensions are for reference only
- Drawings represent standard TEFC general purpose motors



| FRAME | | NEMA SHAFT | | | KEYSEAT DIMENSIONS | | | FRAME | | NEMA SHAFT | | | KEYSEAT DIMENSIONS | | | |
|-------|------|------------|---------|------|--------------------|------|-------|---------|---------|------------|--|--|--------------------|--|--|--|
| | | U | | | R S | | | | | U | | | R S | | | |
| 4B | 4B | 1/2 | 29/64 | 3/16 | FLAT | 284T | 286T | 1-7/8 | 1-19/32 | 1/2 | | | | | | |
| 56 | 56 | 5/8 | 33/64 | 3/16 | 324T | 326T | 2-1/8 | 1-27/32 | 1/2 | | | | | | | |
| 143T | 145T | 7/8 | 49/64 | 3/16 | 364T | 365T | 2-3/8 | 2-1/64 | 5/8 | | | | | | | |
| 182T | 184T | 1-1/8 | 63/64 | 1/4 | 404T | 405T | 2-7/8 | 2-29/64 | 3/4 | | | | | | | |
| 213T | 215T | 1-3/8 | 1-13/64 | 5/16 | 444T | 445T | 3-3/8 | 2-7/8 | 7/8 | | | | | | | |
| 254T | 256T | 1-5/8 | 1-13/32 | 3/8 | 447T | 449T | 3-3/8 | 2-7/8 | 7/8 | | | | | | | |



| NEMA C-FACE | | BA Dimensions | |
|---------------|-------|---------------|-------|
| 143TC - 145TC | 2-3/4 | 2-3/4 | 3-1/8 |
| 182TC - 184TC | 3-1/2 | 3-1/2 | 3-1/8 |
| 213TC - 215TC | 4-1/4 | 4-1/4 | 4-1/4 |
| 254TC - 256TC | 4-3/4 | 4-3/4 | 4-3/4 |

| NEMA Frame | D | E | 2F | H | N-W | O | P | U | Keyway | V | AA | AB | AH | AJ | AK | BA | Tap Size |
|------------|-------|--------|--------|------------|-------|----------|--------|-------|-----------|-------|-------|----------|---------|-------|--------|-------|----------|
| 4B | 3 | 2-1/8 | 2-3/4 | 11/32 SLOT | 1-1/2 | 5-13/16 | 5-5/8 | 1/2 | | 1-1/2 | 1/2 | - | 1-11/16 | 3-3/4 | 3 | 2-1/2 | 1-14/20 |
| 56 | 3-1/2 | 2-7/16 | 3 | 11/32 | 1-7/8 | 8-9/16 | 7-9/32 | 5/8 | 3/16x3/32 | 1-7/8 | 1/2 | - | 2-1/16 | 5-7/8 | 4-1/4 | 2-3/4 | 3/8-16 |
| 56H | 3-1/2 | 2-7/16 | 5 | SLOT | 1-7/8 | 8-9/16 | 7-9/32 | 5/8 | 3/16x3/32 | 1-7/8 | 1/2 | - | 2-1/16 | 5-7/8 | 4-1/2 | 2-3/4 | 3/8-16 |
| 143T | 3-1/2 | 2-7/16 | 4 | 11/32 | 2-1/4 | 8-9/16 | 7-9/32 | 7/8 | 3/16x3/32 | 2-1/4 | 3/4 | - | 2-1/8 | 5-7/8 | 4-1/2 | 2-1/4 | 3/8-16 |
| 145T | 3-1/2 | 2-3/4 | 5 | 11/32 | 2-1/4 | 8-9/16 | 7-9/32 | 7/8 | 3/16x3/32 | 2-1/4 | 3/4 | - | 2-1/8 | 5-7/8 | 4-1/2 | 2-1/4 | 3/8-16 |
| 182 | 4-1/2 | 3-3/4 | 4-1/2 | 13/32 | 2-1/4 | 9-7/8 | 9-1/4 | 7/8 | 3/16x3/32 | 2-1/4 | 3/4 | 8-7/16 | 2-1/8 | 5-7/8 | 4-1/2 | 2-3/4 | 3/8-16 |
| 184 | 4-1/2 | 3-3/4 | 5-1/2 | 13/32 | 2-1/4 | 9-7/8 | 9-1/4 | 7/8 | 3/16x3/32 | 2-1/4 | 3/4 | 8-7/16 | 2-1/8 | 5-7/8 | 4-1/2 | 2-3/4 | 3/8-16 |
| 182T | 4-1/2 | 3-3/4 | 4-1/2 | 13/32 | 2-3/4 | 9-7/8 | 9-1/4 | 1-1/8 | 1/4x1/8 | 2-3/4 | 3/4 | 7-13/16 | 2-5/8 | 7-1/4 | 8-1/2 | 2-3/4 | 1/2-13 |
| 184T | 4-1/2 | 3-3/4 | 5-1/2 | 13/32 | 2-3/4 | 9-7/8 | 9-1/4 | 1-1/8 | 1/4x1/8 | 2-3/4 | 3/4 | 7-13/16 | 2-5/8 | 7-1/4 | 8-1/2 | 2-3/4 | 1/2-13 |
| 213 | 5-1/4 | 4-1/4 | 5-1/2 | 13/32 | 3 | 11-1/4 | 10-1/2 | 1-1/8 | 1/4x1/8 | 3 | 1 | 9-5/16 | 2-3/4 | 7-1/4 | 8-1/2 | 3-1/2 | 1/2-13 |
| 215 | 5-1/4 | 4-1/4 | 7 | 13/32 | 3 | 11-1/4 | 10-1/2 | 1-1/8 | 1/4x1/8 | 3 | 1 | 9-5/16 | 2-3/4 | 7-1/4 | 8-1/2 | 3-1/2 | 1/2-13 |
| 213T | 5-1/4 | 4-1/4 | 5-1/2 | 13/32 | 3-3/8 | 11-1/4 | 10-1/2 | 1-3/8 | 5/16x5/32 | 3-3/8 | 1 | 8-11/16 | 3-1/8 | 7-1/4 | 8-1/2 | 3-1/2 | 1/2-13 |
| 215T | 5-1/4 | 4-1/4 | 7 | 13/32 | 3-3/8 | 11-1/4 | 10-1/2 | 1-3/8 | 5/16x5/32 | 3-3/8 | 1 | 8-11/16 | 3-1/8 | 7-1/4 | 8-1/2 | 3-1/2 | 1/2-13 |
| 254U | 6-1/4 | 5 | 8-1/4 | 17/32 | 3-3/4 | 13-1/4 | 13-1/4 | 1-3/8 | 5/16x5/32 | 3-3/4 | 1-1/4 | 10-13/16 | 3-1/2 | 7-1/4 | 8-1/2 | 4-1/4 | 1/2-13 |
| 256U | 6-1/4 | 5 | 10 | 17/32 | 3-3/4 | 13-1/4 | 13-1/4 | 1-3/8 | 5/16x5/32 | 3-3/4 | 1-1/4 | 10-13/16 | 3-1/2 | 7-1/4 | 8-1/2 | 4-1/4 | 1/2-13 |
| 254T | 6-1/4 | 5 | 8-1/4 | 17/32 | 4 | 13-1/4 | 13-1/4 | 1-5/8 | 3/8x3/16 | 4 | 1-1/4 | 10-3/4 | 3-3/4 | 7-1/4 | 8-1/2 | 4-1/4 | 1/2-13 |
| 256T | 6-1/4 | 5 | 10 | 17/32 | 4 | 13-1/4 | 13-1/4 | 1-5/8 | 3/8x3/16 | 4 | 1-1/4 | 10-3/4 | 3-3/4 | 7-1/4 | 8-1/2 | 4-1/4 | 1/2-13 |
| 284U | 7 | 5-1/2 | 9-1/2 | 17/32 | 4-7/8 | 14-3/4 | 14-7/8 | 1-5/8 | 3/8x3/16 | 4-7/8 | 1-1/2 | 12-5/8 | 4-5/8 | 9 | 10-1/2 | 4-3/4 | 1/2-13 |
| 286U | 7 | 5-1/2 | 11 | 17/32 | 4-7/8 | 14-3/4 | 14-7/8 | 1-5/8 | 3/8x3/16 | 4-7/8 | 1-1/2 | 12-5/8 | 4-5/8 | 9 | 10-1/2 | 4-3/4 | 1/2-13 |
| 284T | 7 | 5-1/2 | 9-1/2 | 17/32 | 4-5/8 | 14-3/4 | 14-7/8 | 1-7/8 | 1/2x1/4 | 4-5/8 | 1-1/2 | 12-3/4 | 4-3/8 | 9 | 10-1/2 | 4-3/4 | 1/2-13 |
| 286T | 7 | 5-1/2 | 11 | 17/32 | 4-5/8 | 14-3/4 | 14-7/8 | 1-7/8 | 1/2x1/4 | 4-5/8 | 1-1/2 | 12-3/4 | 4-3/8 | 9 | 10-1/2 | 4-3/4 | 1/2-13 |
| 284TS | 7 | 5-1/2 | 9-1/2 | 17/32 | 3-1/4 | 14-3/4 | 14-7/8 | 1-5/8 | 3/8x3/16 | 3-1/4 | 1-1/2 | 12-3/4 | 3 | 9 | 10-1/2 | 4-3/4 | 1/2-13 |
| 286TS | 7 | 5-1/2 | 11 | 17/32 | 3-1/4 | 14-3/4 | 14-7/8 | 1-5/8 | 3/8x3/16 | 3-1/4 | 1-1/2 | 12-3/4 | 3 | 9 | 10-1/2 | 4-3/4 | 1/2-13 |
| 324U | 8 | 6-1/4 | 10-1/2 | 21/32 | 5-5/8 | 16-11/16 | 17 | 1-7/8 | 1/2x1/4 | 5-5/8 | 2 | 15-7/16 | 5-3/8 | 11 | 12-1/2 | 5-1/4 | 5/8-11 |
| 326U | 8 | 6-1/4 | 12 | 21/32 | 5-5/8 | 16-11/16 | 17 | 1-7/8 | 1/2x1/4 | 5-5/8 | 2 | 15-7/16 | 5-3/8 | 11 | 12-1/2 | 5-1/4 | 5/8-11 |
| 324T | 8 | 6-1/4 | 10-1/2 | 21/32 | 5-1/4 | 16-11/16 | 17 | 2-1/8 | 1/2x1/4 | 5-1/4 | 2 | 15-3/16 | 5 | 11 | 12-1/2 | 5-1/4 | 5/8-11 |
| 326T | 8 | 6-1/4 | 12 | 21/32 | 5-1/4 | 16-11/16 | 17 | 2-1/8 | 1/2x1/4 | 5-1/4 | 2 | 15-3/16 | 5 | 11 | 12-1/2 | 5-1/4 | 5/8-11 |
| 324TS | 8 | 6-1/4 | 10-1/2 | 21/32 | 3-3/4 | 16-11/16 | 17 | 1-7/8 | 1/2x1/4 | 3-3/4 | 2 | 15-3/16 | 3-1/2 | 11 | 12-1/2 | 5-1/4 | 5/8-11 |
| 326TS | 8 | 6-1/4 | 12 | 21/32 | 3-3/4 | 16-11/16 | 17 | 1-7/8 | 1/2x1/4 | 3-3/4 | 2 | 15-3/16 | 3-1/2 | 11 | 12-1/2 | 5-1/4 | 5/8-11 |
| 364U | 9 | 7 | 11-1/4 | 21/32 | 6-3/8 | 18-1/2 | 19-1/2 | 2-1/8 | 1/2x1/4 | 6-3/8 | 2-1/2 | 18 | 6-1/8 | 11 | 12-1/2 | 5-7/8 | 5/8-11 |
| 365U | 9 | 7 | 12-1/4 | 21/32 | 6-3/8 | 18-1/2 | 19-1/2 | 2-1/8 | 1/2x1/4 | 6-3/8 | 2-1/2 | 18 | 6-1/8 | 11 | 12-1/2 | 5-7/8 | 5/8-11 |
| 364T | 9 | 7 | 11-1/4 | 21/32 | 5-7/8 | 18-1/2 | 19-1/2 | 2-3/8 | 5/8x5/16 | 5-7/8 | 2-1/2 | 18-1/16 | 5-5/8 | 11 | 12-1/2 | 5-7/8 | 5/8-11 |
| 365T | 9 | 7 | 12-1/4 | 21/32 | 5-7/8 | 18-1/2 | 19-1/2 | 2-3/8 | 5/8x5/16 | 5-7/8 | 2-1/2 | 18-1/16 | 5-5/8 | 11 | 12-1/2 | 5-7/8 | 5/8-11 |
| 364TS | 9 | 7 | 11-1/4 | 21/32 | 3-3/4 | 18-1/2 | 19-1/2 | 1-7/8 | 1/2x1/4 | 3-3/4 | 2-1/2 | 18-1/16 | 3-1/2 | 11 | 12-1/2 | 5-7/8 | 5/8-11 |
| 365TS | 9 | 7 | 12-1/4 | 21/32 | 3-3/4 | 18-1/2 | 19-1/2 | 1-7/8 | 1/2x1/4 | 3-3/4 | 2-1/2 | 18-1/16 | 3-1/2 | 11 | 12-1/2 | 5-7/8 | 5/8-11 |
| 404U | 10 | 8 | 12-1/4 | 13/16 | 7-1/8 | 21-5/16 | 22-1/2 | 2-3/8 | 5/8x5/16 | 7-1/8 | 3 | 19-1/4 | 6-7/8 | 11 | 12-1/2 | 6-5/8 | 5/8-11 |
| 405U | 10 | 8 | 13-3/4 | 13/16 | 7-1/8 | 21-5/16 | 22-1/2 | 2-3/8 | 5/8x5/16 | 7-1/8 | 3 | 19-1/4 | 6-7/8 | 11 | 12-1/2 | 6-5/8 | 5/8-11 |
| 404T | 10 | 8 | 12-1/4 | 13/16 | 7-1/4 | 21-5/16 | 22-1/2 | 2-7/8 | 3/4x3/8 | 7-1/4 | 3 | 19-5/16 | 7 | 11 | 12-1/2 | 6-5/8 | 5/8-11 |
| 405T | 10 | 8 | 13-3/4 | 13/16 | 7-1/4 | 21-5/16 | 22-1/2 | 2-7/8 | 3/4x3/8 | 7-1/4 | 3 | 19-5/16 | 7 | 11 | 12-1/2 | 6-5/8 | 5/8-11 |
| 404TS | 10 | 8 | 12-1/4 | 13/16 | 4-1/4 | 21-5/16 | 22-1/2 | 2-1/8 | 1/2x1/4 | 4-1/4 | 3 | 19-5/16 | 4 | 11 | 12-1/2 | 6-5/8 | 5/8-11 |
| 405TS | 10 | 8 | 13-3/4 | 13/16 | 4-1/4 | 21-5/16 | 22-1/2 | 2-1/8 | 1/2x1/4 | 4-1/4 | 3 | 19-5/16 | 4 | 11 | 12-1/2 | 6-5/8 | 5/8-11 |
| 444U | 11 | 9 | 14-1/2 | 13/16 | 8-5/8 | 23-3/8 | 25-1/4 | 2-7/8 | 3/4x3/8 | 8-5/8 | 3 | 22-3/16 | 8-3/8 | 14 | 16 | 7-1/2 | 5/8-11 |
| 445U | 11 | 9 | 16-1/2 | 13/16 | 8-5/8 | 23-3/8 | 25-1/4 | 2-7/8 | 3/4x3/8 | 8-5/8 | 3 | 22-3/16 | 8-3/8 | 14 | 16 | 7-1/2 | 5/8-11 |
| 444T | 11 | 9 | 14-1/2 | 13/16 | 8-1/2 | 23-3/8 | 25-1/4 | 3-3/8 | 7/8x7/16 | 8-1/2 | 3 | 23-3/8 | 8-1/4 | 14 | 16 | 7-1/2 | 5/8-11 |
| 445T | 11 | 9 | 16-1/2 | 13/16 | 8-1/2 | 23-3/8 | 25-1/4 | 3-3/8 | 7/8x7/16 | 8-1/2 | 3 | 23-3/8 | 8-1/4 | 14 | 16 | 7-1/2 | 5/8-11 |
| 447T | 11 | 9 | 20 | 13/16 | 8-1/2 | 23-5/8 | 26 | 3-3/8 | 7/8x7/16 | 8-1/2 | 3 | 23-7/8 | 8-1/4 | 14 | 16 | 7-1/2 | 5/8-11 |
| 449T | 11 | 9 | 25 | 13/16 | 8-1/2 | 23-5/8 | 26 | 3-3/8 | 7/8x7/16 | 8-1/2 | 3 | 23-7/8 | 8-1/4 | 14 | 16 | 7-1/2 | 5/8-11 |
| 444TS | 11 | 9 | 14-1/2 | 13/16 | 4-3/4 | 23-3/8 | 25-1/4 | 2-3/8 | 5/8x5/16 | 4-3/4 | 3 | 23-3/8 | 4-1/2 | 14 | 16 | 7-1/2 | 5/8-11 |
| 445TS | 11 | 9 | 16-1/2 | 13/16 | 4-3/4 | 23-3/8 | 25-1/4 | 2-3/8 | 5/8x5/16 | 4-3/4 | 3 | 23-3/8 | 4-1/2 | 14 | 16 | 7-1/2 | 5/8-11 |
| 447TS | 11 | 9 | 20 | 13/16 | 4-3/4 | 23-5/8 | 26 | 2-3/8 | 5/8x5/16 | 4-3/4 | 4 NPT | 23-7/8 | 4-1/2 | 14 | 16 | 7-1/2 | 5/8-11 |
| 449TS | 11 | 9 | 25 | 13/16 | 4-3/4 | 23-5/8 | 26 | 2-3/8 | 5/8x5/16 | 4-3/4 | 4 NPT | 23-7/8 | 4-1/2 | 14 | 16 | 7-1/2 | 5/8-11 |