

Synchron-IPM types 4-pole

17/01/2024

Power

Continuous power for efficient water cooling

| Speed | in krpm | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 |
|-------------------------|---------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Frequency | in Hz | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
| Types (D1/LFe in cm) | | Power in kW | | | | | | | | | | | | | | |
| mSipW 7/2.5-4-s2r.. | 0.34 | 0.68 | 1 | 1.4 | 1.7 | 2 | 2.4 | 2.7 | 3.1 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| mSipW 7/5-4-s2r.. | 0.7 | 1.4 | 2.1 | 2.8 | 3.5 | 4.2 | 4.9 | 5.6 | 6.3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| mSipW 7/7-4-s2r.. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| mSipW 7/10-4-s2r.. | 1.4 | 2.9 | 4.4 | 5.8 | 7.2 | 8.7 | 10.2 | 11.6 | 13 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| mSipW 8/4-4-s1r.. | 0.77 | 1.5 | 2.3 | 3.1 | 3.9 | 4.6 | 5.4 | 6.2 | 6.9 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| mSipW 8/6-4-s1r.. | 1.2 | 2.4 | 3.5 | 4.7 | 5.9 | 7.1 | 8.2 | 9.4 | 10.6 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| mSipW 8/9-4-s1r.. | 1.8 | 3.5 | 5.3 | 7.1 | 8.8 | 10.6 | 12.4 | 14.1 | 15.9 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |
| mSipW 8/11-4-s1r.. | 2.1 | 4.3 | 6.4 | 8.6 | 10.7 | 12.8 | 15 | 17.1 | 19.3 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| mSipW 9/3-4-s4r.. | 0.76 | 1.5 | 2.3 | 3 | 3.8 | 4.6 | 5.3 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| mSipW 9/6-4-s4r.. | 1.5 | 3.1 | 4.6 | 6.2 | 7.7 | 9.3 | 10.8 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 |
| mSipW 9/8-4-s4r.. | 1.9 | 3.9 | 5.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 |
| mSipW 9/9-4-s4r.. | 2.4 | 4.7 | 7.1 | 9.5 | 11.9 | 14.2 | 16.6 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 |
| mSipW 9/10-4-s4r.. | 2.4 | 4.9 | 7.4 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 |
| mSipW 9/11-4-s4r.. | 2.9 | 5.8 | 8.7 | 11.6 | 14.5 | 17.4 | 20 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| mSipW 10.6/6-4-s1r.. | 3.1 | 6.2 | 9.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | | | |
| mSipW 10.6/8-4-s1r.. | 4.3 | 8.6 | 12.9 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | | | |
| mSipW 10.6/10-4-s1r.. | 5.5 | 10.9 | 16.4 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | | | |
| mSipW 10.6/6-4-s2r.. | 2.9 | 5.8 | 8.8 | 11.7 | 14.6 | 17.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | | | |
| mSipW 10.6/8-4-s2r.. | 3.9 | 7.8 | 11.7 | 15.6 | 19.5 | 23 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | | | |
| mSipW 10.6/10-4-s2r.. | 4.9 | 9.9 | 14.8 | 19.8 | 25 | 30 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | | | |
| mSipW 10.6/12-4-s2r.. | 5.9 | 11.8 | 17.8 | 24 | 30 | 36 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | | | |
| mSipW 12/6-4-s2r.. | 3.7 | 7.3 | 11 | 14.7 | 18.3 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | | | |
| mSipW 12/6-4-s2r.. | 3.6 | 7.2 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | | | |
| mSipW 12/9-4-s2r.. | 5.5 | 11 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | | | |
| mSipW 12/9-4-s2r.. | 5.5 | 11 | 16.5 | 22 | 28 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | | | |
| mSipW 12/12-4-s2r.. | 7.5 | 15.1 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | | | |
| mSipW 12/12-4-s2r.. | 7.3 | 14.7 | 22 | 29 | 37 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | | | |
| mSipW 12/15-4-s2r.. | 9.2 | 18.3 | 28 | 37 | 46 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | |
| mSipW 12/15-4-s2r.. | 9.4 | 18.9 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | | | |
| mSipW 13.5/8-4-s3r.. | 6.6 | 13.2 | 19.8 | 26 | 33 | 33 | 33 | 33 | 33 | 33 | | | | | | |
| mSipW 13.5/9-4-s3r.. | 7.5 | 15 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | | | | | | |
| mSipW 13.5/10-4-s3r.. | 8.2 | 16.5 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | | | | | | |
| mSipW 13.5/15-4-s3r.. | 12.6 | 25 | 38 | 50 | 63 | 63 | 63 | 63 | 63 | 63 | | | | | | |
| mSipW 13.5/15.5-4-s3r.. | 13.1 | 26 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | | | | | | |
| mSipW 13.5/20-4-s3r.. | 17 | 34 | 51 | 68 | 85 | 85 | 85 | 85 | 85 | 85 | | | | | | |
| mSipW 15/7-4-s2r.. | 7.6 | 15.2 | 23 | 30 | 38 | 38 | 38 | 38 | 38 | 38 | | | | | | |
| mSipW 15/10-4-s2r.. | 11.2 | 22 | 34 | 45 | 56 | 56 | 56 | 56 | 56 | 56 | | | | | | |
| mSipW 15/12-4-s2r.. | 13.6 | 27 | 41 | 54 | 68 | 68 | 68 | 68 | 68 | 68 | | | | | | |
| mSipW 15/15-4-s2r.. | 17 | 34 | 51 | 68 | 85 | 85 | 85 | 85 | 85 | 85 | | | | | | |
| mSipW 16/8-4-s1r.. | 10.7 | 21 | 25 | 25 | 25 | 25 | 25 | 25 | | | | | | | | |
| mSipW 16/11-4-s1r.. | 15 | 30 | 35 | 35 | 35 | 35 | 35 | 35 | | | | | | | | |
| mSipW 16/15-4-s1r.. | 21 | 42 | 48 | 48 | 48 | 48 | 48 | 48 | | | | | | | | |
| mSipW 16/20-4-s1r.. | 28 | 56 | 65 | 65 | 65 | 65 | 65 | 65 | | | | | | | | |
| mSipW 16/8-4-s2r.. | 10.8 | 22 | 32 | 43 | 47 | 47 | 47 | 47 | | | | | | | | |
| mSipW 16/11-4-s2r.. | 15.2 | 30 | 46 | 61 | 66 | 66 | 66 | 66 | | | | | | | | |
| mSipW 16/15-4-s2r.. | 21 | 42 | 63 | 84 | 91 | 91 | 91 | 91 | | | | | | | | |
| mSipW 16/20-4-s2r.. | 28 | 56 | 84 | 112 | 121 | 121 | 121 | 121 | | | | | | | | |



| Speed | in krpm | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 |
|----------------------|---------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| Frequency | in Hz | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
| Types (D1/LFe in cm) | | Power in kW | | | | | | | | | | | | | | |
| mSipW 17/10-4-s1r.. | | 16 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | | | | | | | |
| mSipW 17/15-4-s1r.. | | 24 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | | | | | | | |
| mSipW 17/18-4-s1r.. | | 30 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | | | | | | |
| mSipW 17/20-4-s1r.. | | 33 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | | | | | | | |
| mSipW 17/25-4-s1r.. | | 42 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | | | | | | | |
| mSipW 17/10-4-s2r.. | | 15.5 | 31 | 46 | 62 | 62 | 62 | 62 | 62 | | | | | | | |
| mSipW 17/15-4-s2r.. | | 24 | 47 | 70 | 94 | 94 | 94 | 94 | 94 | | | | | | | |
| mSipW 17/20-4-s2r.. | | 32 | 64 | 96 | 128 | 128 | 128 | 128 | 128 | | | | | | | |
| mSipW 17/25-4-s2r.. | | 40 | 80 | 120 | 160 | 160 | 160 | 160 | 160 | | | | | | | |
| mSipW 18/8-4-s1r.. | | 15 | 30 | 30 | 30 | 30 | 30 | 30 | | | | | | | | |
| mSipW 18/11-4-s1r.. | | 21 | 42 | 42 | 42 | 42 | 42 | 42 | | | | | | | | |
| mSipW 18/11-4-s1r.. | | 22 | 43 | 65 | 83 | 83 | 83 | 83 | | | | | | | | |
| mSipW 18/15-4-s1r.. | | 30 | 59 | 59 | 59 | 59 | 59 | 59 | | | | | | | | |
| mSipW 18/15-4-s1r.. | | 29 | 57 | 86 | 110 | 110 | 110 | 110 | | | | | | | | |
| mSipW 18/20-4-s1r.. | | 40 | 79 | 79 | 79 | 79 | 79 | 79 | | | | | | | | |
| mSipW 18/22-4-s1r.. | | 43 | 86 | 129 | 165 | 165 | 165 | 165 | | | | | | | | |
| mSipW 20/7-4-s1r.. | | 16.2 | 27 | 27 | 27 | 27 | 27 | 27 | | | | | | | | |
| mSipW 20/11-4-s1r.. | | 26 | 43 | 43 | 43 | 43 | 43 | 43 | | | | | | | | |
| mSipW 20/16-4-s1r.. | | 38 | 64 | 64 | 64 | 64 | 64 | 64 | | | | | | | | |
| mSipW 20/18-4-s1r.. | | 43 | 72 | 72 | 72 | 72 | 72 | 72 | | | | | | | | |
| mSipW 20/26-4-s1r.. | | 64 | 106 | 106 | 106 | 106 | 106 | 106 | | | | | | | | |
| mSipW 20/7-4-s3r.. | | 15.1 | 30 | 45 | 53 | 53 | 53 | 53 | | | | | | | | |
| mSipW 20/11-4-s3r.. | | 24 | 49 | 73 | 85 | 85 | 85 | 85 | | | | | | | | |
| mSipW 20/15-4-s3r.. | | 34 | 68 | 102 | 119 | 119 | 119 | 119 | | | | | | | | |
| mSipW 20/21-4-s3r.. | | 48 | 97 | 145 | 169 | 169 | 169 | 169 | | | | | | | | |

Dimension sheet

Sketch



| Main dimensions all dimensions in mm | Stator | | | Rotor | |
|---|----------------------|------------------------|----|------------------|------------|
| | Outer diameter D1 | Length of winding head | | Bore d3 | max. speed |
| Typ | | W1 | W2 | | |
| D1/LFe in cm | | with PTC | | at nominal point | in krpm |
| mSipW 7/ .. -4-s2r.. | 70.2 | 21 | 18 | 28 | 60 |
| mSipW 8/ .. -4-s1r.. | 80 | 25 | 21 | 37 | 56 |
| mSipW 9/ .. -4-s4r.. | 90 | 30 | 23 | 43 | 45 |
| mSipW 10.6/ .. -4-s1r.. | 106.5 | 34 | 26 | 50 | 40 |
| mSipW 10.6/ .. -4-s2r.. | 106.5 | 34 | 26 | 50 | 40 |
| mSipW 12/ .. -4-s2r.. | 120 | 30 | 24 | 55 | 36 |
| mSipW 12/ .. -4-s2r.. | 120 | 30 | 24 | 55 | 36 |
| mSipW 13.5/ .. -4-s3r.. | 135 | 37 | 27 | 65 | 30 |
| mSipW 15/ .. -4-s2r.. | 150 | 41 | 28 | 70 | 30 |
| mSipW 16/ .. -4-s1r.. | 160 | 43 | 34 | 80 | 26 |
| mSipW 16/ .. -4-s2r.. | 160 | 43 | 34 | 80 | 26 |
| mSipW 17/ .. -4-s1r.. | 170 | 44 | 37 | 85 | 24 |
| mSipW 17/ .. -4-s2r.. | 170 | 44 | 37 | 85 | 24 |
| mSipW 18/ .. -4-s1r.. | 180 | 47 | 40 | 90 | 23 |
| mSipW 18/ .. -4-s1r.. | 180 | 47 | 40 | 90 | 23 |
| mSipW 20/ .. -4-s1r.. | 200 | 50 | 34 | 100 | 21 |
| mSipW 20/ .. -4-s3r.. | 200 | 50 | 34 | 100 | 21 |