

Technical Data

08 207 07 06



AC motors

DRS, DRE, DRP, DRN, EDRS, EDRE

Sound-pressure level L_{pA} , sound-power level L_{WA}

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EMT-BS 08.04.16

Change information:

Chap. /page	Description (changes to the last edition)	Modification no.
P.6 + P.8	2-pole DRN and 6-pole DRN added	SF-20159022

4-pole, 50Hz

Pn kW	DRS	L_{pA} dB(A)	L_{WA} dB(A)	Pn kW	DRE	L_{pA} dB(A)	L_{WA} dB(A)	Pn kW	DRP	L_{pA} dB(A)	L_{WA} dB(A)
0,37	DRS 71S4	45	57	-	-						
0,55	DRS 71M4	45	57	-	-						
0,75	DRS 80S4	49	61	0,55	DRE 80M4						
1,1	DRS 80M4	52	64	0,75	DRE 80M4	51	63				
1,5	DRS 90M4	52	64	1,1	DRE 90M4	51	63	0,75	DRP 90M4	51	63
2,2	DRS 90L4	54	66	1,5	DRE 90L4	51	63	1,1	DRP 90L4	51	63
3	DRS 100M4	55	67	2,2	DRE 100M4	52	64	1,5	DRP 100M4	50	62
		-	-	-	DRE 100L4	52	64	2,2	DRP 100L4	53	65
4	DRS 100LC4	55	67	3	DRE 100LC4	54	66				
4	DRS 112M4	57	69	3	DRE 112M4	57	69	3	DRP 112M4	56	68
5,5	DRS 132S4	58	70	4	DRE 132S4	57	69				
7,5	DRS 132M4	59	71	5,5	DRE 132M4	58	70	4	DRP 132M4	57	69
9,2	DRS 132MC4	61	73	7,5	DRE 132MC4	61	73	5,5	DRP 132MC4	58	70
9,2	DRS 160S4	61	73	7,5	DRE 160S4	59	71	5,5	DRP 160S4	58	70
11	DRS 160M4	61	73	9,2	DRE 160M4	60	72	7,5	DRP 160M4	59	71
15	DRS 160MC4	63	75	11	DRE 160MC4	67	79	9,2	DRP 160MC4	66	78
15	DRS 180S4	63	76	11	DRE 180S4	63	76	9,2	DRP 180S4	62	75
18,5	DRS 180M4	64	77	15	DRE 180M4	64	77	11	DRP 180M4	63	76
22	DRS 180L4	65	78	18,5	DRE 180L4	65	78	15	DRP 180L4	64	77
30	DRS 180LC4	66	79	22	DRE 180LC4	66	79	18,5	DRP 180LC4	65	78
30	DRS 200L4	65	78	30	DRE 200L4	65	78	18,5	DRP 200L4	65	78
								22	DRP 200L4	66	78
37	DRS 225S4	65	78	37	DRE 225S4	65	78	30	DRP 225S4	65	78
45	DRS 225M4	65	78	45	DRS 225M4	65	78	37	DRP 225M4	65	78
55	DRS 225MC4	68	81								
55	DRS 250M4	70	84	55	DRE 250M4	70	84	45	DRP 250M4	65	79
75	DRS 280S4	69	83	75	DRE 280S4	69	83	55	DRP 280S4	66	80
90	DRS 280M4	74	88	90	DRE 280M4	74	88	75	DRP 280M4	66	80
110	DRS 315K4	73	87	110	DRE 315K4	73	87	90	DRP 315K4	72	86
132	DRS 315S4	76	90	132	DRE 315S4	76	90	110	DRP 315S4	74	88
160	DRS 315M4	77	91	160	DRE 315M4	76	90	132	DRP 315M4	75	89
200	DRS 315L4	78	92	200	DRE 315L4	77	91	160	DRP 315L4	76	90

Standard motors without gear unit at rated load S1

Noise measurement according to DIN EN ISO 3744:2009

The values have a tolerance of +3 dB(A).

 L_{pA} sound pressure (1m)

 L_{WA} sound power

4-pole, 60Hz

Pn kW	DRS	L_{pA} dB(A)	L_{WA}	Pn kW	DRE	L_{pA} dB(A)	L_{WA}	Pn kW	DRP	L_{pA} dB(A)	L_{WA}
0,37	DRS 71S4	45	57	-	-						
0,55	DRS 71M4	45	57	-	-						
0,75	DRS 80S4	50	62	0,55	DRE 80M4	51	63				
1,1	DRS 80M4	52	64	0,75	DRE 80M4	51	63				
1,5	DRS 90M4	52	64	1,1	DRE 90M4	51	63	0,75	DRP 90M4	51	63
								1,1	DRP 90L4	51	63
2,2	DRS 90L4	52	64	1,5	DRE 90L4	51	63	1,5	DRP 90L4	51	63
3	DRS 100M4	53	65								
3,7	DRS 100M4	57	69	2,2	DRE 100L4	52	64				
4	DRS 100L4	57	69	3	DRE 100LC4	56	68				
4	DRS 112M4	60	72	3	DRE 112M4	60	72	2,2	DRP 112M4	52	64
5,5	DRS 132S4	60	72	4	DRE 132S4	60	72	3,7	DRE 132S4	62	74
7,5	DRS 132M4	64	76	5,5	DRE 132M4	63	75				
9,2	DRS 132MC4	64	76	7,5	DRE 132MC4	63	75				
9,2	DRS 160S4	64	76	7,5	DRE 160S4	64	76	5,5	DRP 160S4	63	75
11	DRS 160M4	66	78	9,2	DRE 160M4	65	77	7,5	DRP 160S4	64	76
15	DRS 160MC4	68	80	11	DRE 160MC4	66	78	9,2	DRP 160M4	65	77
								11	DRP 160MC4	66	78
15	DRS 180S4	68	81	11	DRE 180S4	67	80	11	DRP 180S4	66	79
18,5	DRS 180M4	68	81	15	DRE 180M4	67	80	15	DRP 180M4	66	79
22	DRS 180L4	68	81	18,5	DRE 180L4	67	80	18,5	DRP 180L4	66	79
30	DRS 180LC4	69	82	22	DRE 180LC4	68	81	22	DRP 180LC4	68	81
30	DRS 200L4	70	83	30	DRE 200L4	70	83	22	DRP 200L4	68	81
37	DRS 225S4	70	83	37	DRE 225S4	70	83				
45	DRS 225M4	71	84	45	DRS 225M4	71	84	30	DRP 225S4	68	81
55	DRS 225MC4	72	85					37	DRP 225M4	69	82
55	DRS 250M4	73	87	55	DRE 250M4	73	87	45	DRP 250M4	68	82
75	DRS 280S4	72	86	75	DRE 280S4	72	86	55	DRP 280S4	69	83
90	DRS 280M4	77	91	90	DRE 280M4	77	91	75	DRP 280M4	69	83
110	DRS 315K4	77	91	110	DRE 315K4	77	91				
132	DRS 315S4	79	93	132	DRE 315S4	79	93				
150	DRS 315S4	80	94	150	DRE 315S4	80	94				
160	DRS 315M4	80	94	160	DRE 315M4	80	94				
185	DRS 315M4	81	95	185	DRE 315M4	81	95				
200	DRS 315L4	81	95	200	DRE 315L4	81	95				
225	DRS 315L4	82	96	225	DRE 315L4	82	96				

Standard motors without gear unit at rated load S1

Noise measurement according to DIN EN ISO 3744:2009

The values have a tolerance of +3 dB(A).
 L_{pA} sound pressure (1m)

 L_{WA} sound power

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AC motors

DRS, DRE, DRP, DRN, EDRS, EDRE

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Sound-pressure level L_{pA} , sound-power level L_{WA}

4-pole, 50Hz, 60Hz

Pn kW	DRN 50Hz	L_{pA} dB(A)	L_{WA}	Pn kW	DRN 60Hz	L_{pA} dB(A)	L_{WA}
0,75	DRN 80M4	48	60	0,75	DRN 80M4	49	61
1,1	DRN 90S4	51	63	1,1	DRN 90S4	51	63
1,5	DRN 90L4	54	66	1,5	DRN 90L4	54	66
2,2	DRN 100LS4	56	68	2,2	DRN 100L4	55	67
3,0	DRN 100L4	50	62	3,0	DRN 100L4	56	68
-	-			3,7	DRN 100L4	57	69
4,0	DRN 112M4	52	64	4,0	DRN 112M4	54	66
5,5	DRN 132S4	67	79	5,5	DRN 132S4	66	78
7,5	DRN 132M4	57	69	7,5	DRN 132M4	60	72
9,2	DRN 132L4	63	75	9,2	DRN 132L4	64	76
11	DRN 160M4	67	79	11	DRN 160M4	61	73
15	DRN 160L4	68	80	15	DRN 160L4	62	74
18,5	DRN 180M4	66	79	18,5	DRN 180M4	64	77
22	DRN 180L4	67	80	22	DRN 180L4	66	79
30	DRN 200L4	65	78	30	DRN 200L4	68	83
37	DRN 225S4	66	79	37	DRN 225S4	71	84
45	DRN 225M4	66	79	45	DRN 225M4	72	85
55	DRN 250M4	67	81	55	DRN 250ME4	68	82
75	DRN 280S4	66	80	75	DRN 280S4	69	83
90	DRN 280M4	65	79	90	DRN 280M4	68	82
110	DRN 315S4	71	85	110	DRN 315S4	75	89
132	DRN 315M4	71	85	132	DRN 315ME4	75	89
160	DRN 315L4	73	87	160	DRN 315L4	77	91
-	-			185	DRN 315H4	76	90
200	DRN 315H4	72	89	200	DRN 315H4	76	93

Standard motors without gear unit at rated load S1

Noise measurement according to DIN EN ISO 3744:2009

The values have a tolerance of +3 dB(A).

 L_{pA} sound pressure (1m)

 L_{WA} sound power

2-pole, 50Hz

Pn kW	DRS	L_{pA} dB(A)	L_{WA}	Pn kW	DRE	L_{pA} dB(A)	L_{WA}	Pn kW	DRP	L_{pA} dB(A)	L_{WA}
0,37	DRS 71S2	52	64	-	-						
0,55	DRS 71M2	52	64	-	-						
0,75	DRS 80S2	58	70	-	-						
1,1	DRS 80M2	58	70	0,75	DRE 80M2	58	70	0,75	DRP 80M2	58	70
1,5	DRS 90M2	59	71	1,1	DRE 90M2	58	70	1,1	DRP 90M2	58	70
2,2	DRS 90L2	59	71	1,5	DRE 90M2	58	70				
3	DRS 100M2	62	74	2,2	DRE 100M2	61	73	1,5	DRP 100M2	61	73
		-	-	-				2,2	DRP 100M2	61	73
4	DRS 100LC2	62	74	3-	DRE 100L2	62	74	3	DRP 100LC2	61	73
4	DRS 112M2	65	77	4	DRE 112M2	65	77	3	DRP 112M2	65	77
5,5	DRS 132S2	65	77	5,5	DRE 132S2	65	77	4	DRP 132S2	65	77
7,5	DRS 132M2	66	78	7,5	DRE 132M2	66	78	5,5	DRP 132M2	66	78
9,2	DRS 132M2	71	83	9,2	DRE 132MC2	70	82				

Standard motors without gear unit at rated load S1

2-pole, 60Hz

Pn kW	DRS	L_{pA} dB(A)	L_{WA}	Pn kW	DRE	L_{pA} dB(A)	L_{WA}	Pn kW	DRP	L_{pA} dB(A)	L_{WA}
0,37	DRS 71S2	56	68	-	-						
0,55	DRS 71M2	56	68	-	-						
0,75	DRS 80S2	59	71	-	-						
1,1	DRS 80M2	59	71	0,75	DRE 80M2	59	71	0,75	DRP 80M2	59	71
1,5	DRS 90M2	60	72	1,1	DRE 90M2	59	71	1,1	DRP 90M2	59	71
2,2	DRS 90L2	61	73	1,5	DRE 90L2	60	72				
3	DRS 100M2	65	77	2,2	DRE 100M2	65	77	1,5	DRP 100M2	64	76
								2,2	DRP 100M2	65	77
3,7	DRS 100L2	65	77	3-	DRE 100L2	64	76				
				3,7	DRE 112M2	70	82	3	DRP 112M2	70	82
5,5	DRS 132S2	71	83	4	DRE 112M2	70	82	3,7	DRP 132S2	70	82
7,5	DRS 132M2	71	83	5,5	DRE 132M2	70	82	4,0	DRP 132S2	70	82
9,2	DRS 132M2	73	84	7,5	DRE 132MC2	72	84	5,5	DRP 132M2	70	82

Standard motors without gear unit at rated load S1

Noise measurement according to DIN EN ISO 3744:2009

The values have a tolerance of +3 dB(A).

L_{pA} sound pressure (1m)

L_{WA} sound power

AC motors

DRS, DRE, DRP, DRN, EDRS, EDRE

Sound-pressure level L_{pA} , sound-power level L_{WA}

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2-pole, 50Hz, 60Hz

Pn kW	DRN 50Hz	L_{pA} dB(A)	L_{WA} dB(A)	Pn kW	DRN 60Hz	L_{pA} dB(A)	L_{WA} dB(A)
0,75	DRN 80MS2	56	68	0,75	DRN 80MS2	62	74
1,1	DRN 80M2	56	68	1,1	DRN 80M2	60	72
1,5	DRN 90S2	61	73	1,5	DRN 90S2	64	76
2,2	DRN 90L2	67	79	2,2	DRN 90L2	67	79
3,0	DRN 100LM2	63	75	3,0	DRN 100LM2	65	77
3,7	DRN 100L2	63	75	3,7	DRN 100L2	67	79
4,0	DRN 112M2	70	82	4,0	DRN 112M2	70	82
5,5	DRN 132S2	69	81	5,5	DRN 132S2	69	81
7,5	DRN 132S2	71	83	7,5	DRN 132S2	70	82

Standard motors without gear unit at rated load S1

Noise measurement according to DIN EN ISO 3744:2009

The values have a tolerance of +3 dB(A).

L_{pA} sound pressure (1m)

L_{WA} sound power

6-pole, 50Hz

Pn kW	DRS	L_{pA} dB(A)	L_{WA}	Pn kW	DRE	L_{pA} dB(A)	L_{WA}	Pn kW	DRP	L_{pA} dB(A)	L_{WA}
0,25	DRS 71S6	50	62	-	-						
0,37	DRS 71M6	50	62	0,25	DRE 71M6-	49	61				
0,55	DRS 80S6	50	62	0,37	DRE 80S6	49	61				
0,75	DRS 80M6	51	63	0,55	DRE 80M6	50	62				
1,1	DRS 90L6	52	64	0,75	DRE 90L6	51	63	0,75	DRP 90L6	51	63
1,5	DRS 100M6	53	65	1,1	DRE 100M6	52	64	1,1	DRP 100L6	52	64
2,2	DRS 100LC6	54	66								
2,2	DRS 112M6	54	66	2,2	DRE 112M6	54	66	1,5	DRP 112M6	53	65
3	DRS 112M6	55	67								
4	DRS 132S6	57	69	3	DRE 132S6	55	67	2,2	DRP 132S6	55	67
				4	DRE 132M6	56	68	3	DRP 132M6	56	68
5,5	DRS 132MC6	58	70	5,5	DRE 132MC6	58	70	4	DRP 132MC6	57	69
5,5	DRS 160M6	59	71								
7,5	DRS 160M6	60	72	5,5	DRE 160M6	59	71	4	DRP 160M6	58	70

6-pole, 60Hz

Pn kW	DRS	L_{pA} dB(A)	L_{WA}	Pn kW	DRE	L_{pA} dB(A)	L_{WA}	Pn kW	DRP	L_{pA} dB(A)	L_{WA}
0,25	DRS 71S6	53	65	-	-						
0,37	DRS 71M6	53	65								
0,55	DRS 80S6	54	66								
0,75	DRS 80M6	55	67								
1,1	DRS 90L6	55	67	0,75	DRE 90L6	54	66				
1,5	DRS 100M6	56	68					0,75	DRP 100M6	54	66
				1,1	DRE 100LC6	56	68				
2,2	DRS 112M6	56	68	1,1	DRE 112M6	55	67	1,1	DRP 112M6	55	67
3	DRS 112M6	56	68	1,5	DRE 112M6	55	67				
				2,2	DRE 132M6	55	67	1,5	DRP 132M6	55	67
3,7	DRS 132M6	57	69	3	DRE 132M6	56	68	2,2	DRP 132MC6	55	67
4	DRS 132M6	57	69	3,7	DRE 132M6	57	69	3,0	DRP 132MC6	55	67
				4	DRE 132M6	57	69	3,7	DRP 132MC6	57	69
5,5	DRP 132MC6	61	73					4,0	DRP 132MC6	57	69
5,5	DRS 160S6	61	73					3,7	DRP 160M6	60	72
7,5	DRS 160M6	61	73	5,5	DRE 160M6	61	73	4	DRP 160M6	60	72

Standard motors without gear unit at rated load S1

Noise measurement according to DIN EN ISO 3744:2009

The values have a tolerance of +3 dB(A).
 L_{pA} sound pressure (1m) L_{WA} sound power

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6-pole, 50Hz

Pn kW	DRN 50Hz	L_{pA} dB(A)	L_{WA} dB(A)
0,75	DRN 90S6	41	53
1,1	DRN 90L6	46	58
1,5	DRN 100L6	54	66
2,2	DRN 112M6	62	74
3,0	DRN 132S6	59	71
4,0	DRN 132S6	63	75
5,5	DRN 132L6	62	74
7,5	DRN 160M6	61	73

6-pole, 50Hz, 60Hz (global)

Pn kW	DRN 50Hz	L_{pA} dB(A)	L_{WA} dB(A)	Pn kW	DRN 60Hz	L_{pA} dB(A)	L_{WA} dB(A)
0,75	DRN 90S6	41	53	0,75	DRN 90S6	48	60
1,1	DRN 112M6	56	68	1,1	DRN 112M6	63	75
1,5	DRN 112M6	58	70	1,5	DRN 112M6	65	77
2,2	DRN 132S6	59	71	2,2	DRN 132S6	58	70
3,0	DRN 132S6	59	71	3,0	DRN 132S6	60	72
3,7	DRN 132M6	62	74	3,7	DRN 132M6	62	74
4,0	DRN 132M6	62	74	4,0	DRN 132M6	63	75
5,5	DRN 160M6	59	71	5,5	DRN 160M6	66	78
7,5	DRN 160M6	61	73	7,5	DRN 160M6	67	79

Standard motors without gear unit at rated load S1

Noise measurement according to DIN EN ISO 3744:2009

The values have a tolerance of +3 dB(A).

L_{pA} sound pressure (1m)

L_{WA} sound power