Reluctance motors for inverter operation

Frequency range (0)-5-50 Hz

Series **DNK ...Rs** self-ventilated

Type of cooling **IC 411**

Insulation class F, temperature rise B

Degree of protection **IP 55**

Design: 380 V Y-connection - synchronous pull-out torque approx. 150%
special high-temperature grease
bimetal contacts or PTC = mandatory option

Torque Nm	Power at 50 Hz kW	Type		Nominal current at 380 V A	cos phi	eta %	J kg*cm^2	m kg
2 poles; 300 - 3000 rpm								
0,57	0,18	**DNK**	**71 A / 2 Rs**	0,85	0,48	67	3,5	6
0,80	0,25	**DNK**	**71 B / 2 Rs**	1,20	0,5	63,3	4,6	6,5
1,18	0,37	**DNK**	**80 A / 2 Rs**	1,70	0,5	66,1	6,8	8,5
1,75	0,55	**DNK**	**80 B / 2 Rs**	2,50	0,5	66,8	8,5	9,5
2,39	0,75	**DNK**	**90 S / 2 Rs**	3,50	0,48	67,8	14	13,5
3,50	1,10	**DNK**	**90 L / 2 Rs**	4,60	0,48	75,7	19	16
4,78	1,50	**DNK**	**100 L / 2 R**	6,60	0,48	71,9	38	24
7,00	2,20	**DNK**	**112 M/ 2 Rs**	8,80	0,48	79,1	63	32
9,55	3,00	**DNK**	**132 S/ 2 Rs**	13,50	0,46	73,4	140	47
12,7	4,00	**DNK**	**132 M/ 2 Rs**	18,00	0,44	76,7	190	58
4 poles; 150 - 1500 rpm								
0,9	0,14	**DNK**	**71 A / 4 Rs**	0,60	0,51	59,6	5,7	6
1,35	0,21	**DNK**	**71 B / 4 Rs**	0,80	0,53	64,5	7,4	6,5
2,0	0,31	**DNK**	**80 B / 4 Rs**	1,10	0,52	66,4	15	9,5
2,75	0,43	**DNK**	**90 S / 4 Rs**	1,50	0,49	76,5	24	12,5
4,0	0,63	**DNK**	**90 L / 4 Rs**	2,20	0,54	70,3	32	15
4,78	0,75	**DNK**	**100 LA / 4 Rs**	3,20	0,47	75,8	46	20
6,4	1,00	**DNK**	**100 LB / 4 Rs**	4,60	0,50	72,7	61	23
9,6	1,50	**DNK**	**112 M / 4 Rs**	6,30	0,48	75,4	120	32
14,0	2,20	**DNK**	**132 S / 4 Rs**	9,50	0,47	74,9	240	46
19,1	3,00	**DNK**	**132 M / 4 Rs**	12,30	0,47	78,8	340	58
6 poles; 100 - 1000 rpm								
1,0	0,10	**DNK**	**71B / 6 Rs**	0,55	0,46	54,0	12	6,5
1,4	0,15	**DNK**	**80 A / 6 Rs**	0,70	0,48	54,3	22	8,5
2,0	0,21	**DNK**	**80 B / 6 Rs**	0,95	0,47	61,2	28	9,5
2,39	0,25	**DNK**	**90 S / 6 Rs**	1,30	0,48	60,9	38	12,5
3,53	0,37	**DNK**	**90 L / 6 Rs**	1,70	0,49	67,5	51	15
5,25	0,55	**DNK**	**100 L / 6 Rs**	2,60	0,48	67,0	100	23
7,16	0,75	**DNK**	**112 M / 6 Rs**	3,50	0,44	74,0	190	32
10,5	1,10	**DNK**	**112 ML / 6 Rs**	5,60	0,43	69,4	240	38
14,3	1,50	**DNK**	**132 S / 6 Rs**	7,40	0,44	70,0	320	46
21,0	2,20	**DNK**	**132 M / 6 Rs**	10,80	0,42	73,7	460	58

RELUCTANCE MOTORS MUST NOT BE OPERATED IN THE FIELD WEAKENING RANGE

U/f = 7,6! Other U / f - ratios upon request

The torques are admissible in continuous operation on the frequency inverter in the entire speed range without reduction.
The project planning instructions on page 13 must be taken into consideration for the parameterization of the frequency inverters.

Reluctance motors for inverter operation

Frequency range (0)-5-50 Hz

Series **DNK ...RsF** separately ventilated Type of cooling **IC 415**

Insulation class F, temperature rise B Degree of protection **IP 55**

Design: 380 V Y-connection - synchronous pull-out torque approx. 150%
special high-temperature grease - separate ventilator 230 V
bimetal contacts or PTC = mandatory option

Torque Nm	Power at 50 Hz kW	Type	Nominal current at 380 V A	cos phi	eta %	J kg*cm^2	m kg
2 poles; 300 - 3000 rpm		**upon request**					
4 poles; 150 - 1500 rpm							
1,15	0,18	**DNK 71 A / 4 RsF**	0,85	0,51	63,1	5,7	6
1,59	0,25	**DNK 71 B / 4 RsF**	1,20	0,53	59,7	7,4	7
2,75	0,43	**DNK 80 B / 4 RsF**	1,60	0,52	67,6	15	10
4,0	0,63	**DNK 90 S / 4 RsF**	2,30	0,49	74,1	24	13
5,5	0,86	**DNK 90 L / 4 RsF**	2,90	0,54	72,8	32	15
8	1,26	**DNK 100 LA / 4 RsF**	4,20	0,47	84,7	46	20
11	1,73	**DNK 100 LB / 4 RsF**	6,30	0,50	72,3	61	23
14,6	2,3	**DNK 112 M / 4 RsF**	9,00	0,48	77,4	120	32
20	3,1	**DNK 132 S / 4 RsF**	13,00	0,47	74,6	240	46
27,5	4,3	**DNK 132 M / 4 RsF**	17,00	0,47	76,1	340	58
6 poles; 100 - 1000 rpm							
1,15	0,12	**DNK 71B / 6 RsF**	0,75	0,50	48,6	9,2	7,5
1,72	0,18	**DNK 80 A / 6 RsF**	1,10	0,50	49,7	12	9
2,39	0,25	**DNK 80 B / 6 RsF**	1,30	0,50	58,4	22	10
3,53	0,37	**DNK 90 S / 6 RsF**	2,00	0,47	59,8	29	11
5,25	0,55	**DNK 90 L / 6 RsF**	2,60	0,49	65,6	51	16,5
7,16	0,75	**DNK 100 L / 6 RsF**	3,90	0,46	63,5	78	21,5
10,5	1,10	**DNK 112 M / 6 RsF**	5,20	0,46	69,9	100	24,5
14,3	1,50	**DNK 112 ML / 6 RsF**	7,50	0,44	69,1	190	33,5
21,0	2,20	**DNK 132 S / 6 RsF**	12,00	0,43	64,8	320	48
28,7	3,00	**DNK 132 M / 6 RsF**	14,00	0,43	75,7	460	60
8 poles; 75 - 750 rpm		**upon request**					

RELUCTANCE MOTORS MUST NOT BE OPERATED IN THE FIELD WEAKENING RANGE

U/f = 7,6! Other U / f - ratios upon request

The torques are admissible in continuous operation on the frequency inverter in the entire speed range without reduction. The project planning instructions on page 13 must be taken into consideration for the parameterization of the frequency inverters.

Reluctance motors for inverter operation

Frequency range (0)-5-50 Hz

Series **DNK ...Rs** not ventilated

Type of cooling **IC 410**

Insulation class F, temperature rise F

Degree of protection **IP 55**

Design: 380 V Y-connection - synchronous pull-out torque approx. 150%
special high-temperature grease
bimetal contacts or PTC = mandatory option

Torque Nm	Power at 50 Hz kW	Type	Nominal current at 380 V A	cos phi	eta %	J kg*cm^2	m kg
2 poles; 300 - 3000 rpm		**upon request**					
4 poles; 150 - 1500 rpm							
0,96	0,15	**DNK 71 B / 4 Rs**	0,65	0,53	66,2	7,4	6,5
1,27	0,20	**DNK 80 B / 4 Rs**	0,85	0,51	70,1	15	9,5
1,59	0,25	**DNK 90 S / 4 Rs**	1,10	0,52	66,4	24	12,5
2,36	0,37	**DNK 90 L / 4 Rs**	1,70	0,50	66,1	32	15
3,5	0,55	**DNK 100 LA / 4 Rs**	2,25	0,51	72,8	46	20
4,78	0,75	**DNK 100 LB / 4 Rs**	3,40	0,51	65,7	61	23
7,0	1,10	**DNK 112 M / 4 Rs**	4,50	0,50	74,3	120	32
8,0	1,25	**DNK 112 ML / 4 Rs**	5,00	0,50	76,0	160	38
9,6	1,50	**DNK 132 S / 4 Rs**	6,50	0,50	70,1	240	46
11,8	1,85	**DNK 132 M / 4 Rs**	7,30	0,50	77,0	340	58
6 poles; 100 - 1000 rpm		**upon request**					

RELUCTANCE MOTORS MUST NOT BE OPERATED IN THE FIELD WEAKENING RANGE

U/f = 7,6! Other U / f - ratios upon request

The torques are admissible in continuous operation on the frequency inverter in the entire speed range without reduction.
The project planning instructions on page 13 must be taken into consideration for the parameterization of the frequency inverters.

Reluctance motors for inverter operation

Frequency range (0)-5-87 Hz

Series **DNK ...Rs** self-ventilated

Type of cooling **IC 411**

Insulation class F, temperature rise B

Degree of protection **IP 55**

Design: 380 V Y-connection - synchronous pull-out torque approx. 150%
special high-temperature grease
bimetal contacts or PTC = mandatory option

Torque Nm	Power at 87 Hz kW	Type	Nominal current at 380 V A	cos phi	eta %	J kg*cm^2	m kg
2 poles; 300 - 5220 rpm		**upon request**					
4 poles; 150 - 2610 rpm							
0,90	0,25	**DNK 71 A / 4 Rs**	1,20	0,51	62,0	5,7	6
1,35	0,37	**DNK 71 B / 4 Rs**	1,70	0,54	61,0	7,4	6,5
1,70	0,46	**DNK 80 A / 4 Rs**	2,3	0,53	62,0	11	8,5
2,00	0,55	**DNK 80 B / 4 Rs**	2,8	0,49	61,0	15	9,5
2,75	0,75	**DNK 90 S / 4 Rs**	3,2	0,5	71,0	24	12,5
4,0	1,1	**DNK 90 L / 4 Rs**	4,5	0,5	74,0	32	15
5,8	1,6	**DNK 100 LB / 4 Rs**	6,5	0,5	70,0	61	23
9,5	2,6	**DNK 112 M / 4 Rs**	11,0	0,48	75,0	120	32
11,0	3,0	**DNK 112 ML / 4 Rs**	13,0	0,48	73,0	160	38
14,7	4,0	**DNK 132 S / 4 Rs**	18,2	0,47	71,0	240	46
20,0	5,5	**DNK 132 M / 4 Rs**	23,0	0,48	76,0	340	58
6 poles; 100 - 1740 rpm							
0,65	0,12	**DNK 71A / 6 Rs**	0,8	0,49	46,5	9,2	6
1,0	0,18	**DNK 71B / 6 Rs**	1,2	0,48	46,5	12	6,5
1,4	0,25	**DNK 80 A / 6 Rs**	1,45	0,47	56,0	22	8,5
2,0	0,37	**DNK 80 B / 6 Rs**	2,00	0,47	60,0	29	9,5
3,0	0,55	**DNK 90 L / 6 Rs**	2,75	0,47	65,0	51	15
4,4	0,8	**DNK 100 L / 6 Rs**	3,5	0,46	71,0	100	23
8,2	1,5	**DNK 112 M / 6 Rs**	7,6	0,45	67,0	190	32
12,1	2,2	**DNK 112 ML / 6 Rs**	11,0	0,45	68,0	240	38
14,3	2,6	**DNK 132 S / 6 Rs**	13,0	0,46	66,0	320	46
16,5	3,0	**DNK 132 MA / 6 Rs**	15,0	0,46	69,0	380	52
20,3	3,7	**DNK 132 M / 6 Rs**	18,0	0,44	71,0	460	58

RELUCTANCE MOTORS MUST NOT BE OPERATED IN THE FIELD WEAKENING RANGE

U/f = 4,4! Other U / f - ratios upon request

The torques are admissible in continuous operation on the frequency inverter in the entire speed range without reduction. The project planning instructions on page 13 must be taken into consideration for the parameterization of the frequency inverters.

Reluctance motors for inverter operation

Frequency range (0)-5-87 Hz

Series **DNK ...RsF** separately ventilated Type of cooling **IC 415**

Insulation class F, temperature rise B Degree of protection **IP 55**

Design: 380 V Y-connection - synchronous pull-out torque approx. 150%
special high-temperature grease - separate ventilator 230 V
bimetal contacts or PTC = mandatory option

Torque Nm	Power at 87 Hz kW	Type	Nominal current at 380 V A	cos phi	eta %	J kg*cm^2	M kg
2 poles; 300 - 5220 rpm		**upon request**					
4 poles; 150 - 2610 rpm							
2,0	0,55	**DNK 80 A / 4 RsF**	2,6	0,52	62,0	11	10
2,75	0,75	**DNK 80 B / 4 RsF**	3,1	0,52	71,0	15	11
4,0	1,10	**DNK 90 S / 4 RsF**	4,9	0,48	71,0	24	14
5,5	1,50	**DNK 90 L / 4 RsF**	6,3	0,49	74,0	32	16,5
8,0	2,2	**DNK 100 LA / 4 RsF**	9,6	0,48	73,0	46	21,5
11,0	3,0	**DNK 100 LB / 4 RsF**	13,5	0,48	70,0	61	24,5
14,7	4,0	**DNK 112 M / 4 RsF**	17,6	0,47	74,0	120	33,5
17,4	4,75	**DNK 112 ML / 4 RsF**	18,8	0,50	77,0	160	40
20,0	5,5	**DNK 132 S / 4 RsF**	24	0,47	74,0	240	48
27,5	7,5	**DNK 132 M / 4 RsF**	31	0,47	78,0	340	61
6 poles; 100 – 1740 rpm							
2,5	0,46	**DNK 80 A / 6 RsF**	2,3	0,50	61,0	22	10
3,0	0,55	**DNK 80 B / 6 RsF**	3,0	0,47	59,0	28	11
3,6	0,65	**DNK 90 S / 6 RsF**	3,5	0,47	60,0	38	14
4,1	0,75	**DNK 90 L / 6 RsF**	3,7	0,47	66,0	51	16,5
6,0	1,1	**DNK 100 LA / 6 RsF**	6,0	0,45	62,0	78	21,5
9,0	1,5	**DNK 100 L / 6 RsF**	7,2	0,46	69,0	100	24,5
14,4	2,6	**DNK 112 M / 6 RsF**	13,0	0,43	71,0	190	33,5
16,5	3,0	**DNK 112 ML / 6 RsF**	16,0	0,41	70,0	240	40
19,2	3,5	**DNK 132 S / 6 RsF**	17,0	0,44	71,0	320	48
22,0	4,0	**DNK 132 MA / 6 RsF**	20,0	0,44	69,0	380	54
27,4	5,0	**DNK 132 M / 6 RsF**	24,5	0,44	71,0	460	60

RELUCTANCE MOTORS MUST NOT BE OPERATED IN THE FIELD WEAKENING RANGE

U/f = 4,4! Other U / f - ratios upon request

The torques are admissible in continuous operation on the frequency inverter in the entire speed range without reduction.
The project planning instructions on page 13 must be taken into consideration for the parameterization of the frequency inverters.

Reluctance motors for inverter operation

Frequency range (0)-5-120 Hz

Series **DNK ...Rs** self-ventilated

Type of cooling **IC 411**

Insulation class F, temperature rise B

Degree of protection **IP 55**

Design: 380 V Y-connection - synchronous pull-out torque approx. 150%
special high-temperature grease
bimetal contacts or PTC = mandatory option

Torque Nm	Power at 120 Hz kW	Type	Nominal current at 380 V A	cos phi	eta %	J kg*cm^2	M kg
2 poles; 300 - 7200 rpm		**upon request**					
4 poles; 150 - 3600 rpm							
0,66	0,25	**DNK 71 A / 4 Rs**	1,10	0,54	64,0	5,7	6
1,00	0,37	**DNK 71 B / 4 Rs**	1,60	0,53	66,0	7,4	6,5
1,5	0,55	**DNK 80 A / 4 Rs**	2,4	0,53	66,0	11	8,5
2,00	0,75	**DNK 80 B / 4 Rs**	3,3	0,51	68,0	15	9,5
2,9	1,10	**DNK 90 S / 4 Rs**	4,5	0,54	69,0	24	12,5
4,0	1,50	**DNK 90 L / 4 Rs**	6,8	0,50	67,0	32	15
5,8	2,2	**DNK 100 LB / 4 Rs**	9,8	0,50	68,0	61	23
9,3	3,5	**DNK 112 M / 4 Rs**	15	0,48	74,0	120	32
10,6	4	**DNK 112 ML / 4 Rs**	18,5	0,46	71,0	160	38
14,6	5,5	**DNK 132 S / 4 Rs**	24	0,47	74,0	240	46
20,0	7,5	**DNK 132 M / 4 Rs**	31	0,48	77,0	340	58
6 poles; 100 - 2400 rpm							
0,45	0,12	**DNK 71A / 6 Rs**	0,75	0,48	51,0	9,2	6
0,72	0,18	**DNK 71B / 6 Rs**	1,05	0,48	54,0	12	6,5
1,00	0,25	**DNK 80 A / 6 Rs**	1,20	0,49	65,0	22	8,5
1,50	0,37	**DNK 80 B / 6 Rs**	1,90	0,47	63,0	29	9,5
2,2	0,55	**DNK 90 S / 6 Rs**	2,6	0,49	66,0	38	12,5
3,0	0,75	**DNK 90 L / 6 Rs**	3,5	0,47	69,0	51	15
4,4	1,10	**DNK 100 L / 6 Rs**	5,5	0,46	66,0	100	23
8,8	2,2	**DNK 112 M / 6 Rs**	11,2	0,45	66,0	190	32
12,0	3,0	**DNK 112 ML / 6 Rs**	15,3	0,44	68,0	240	38
14,0	3,5	**DNK 132 S / 6 Rs**	17,8	0,46	65,0	320	46
16,0	4,0	**DNK 132 MA / 6 Rs**	20,5	0,44	67,0	380	52
20,0	5,0	**DNK 132 M / 6 Rs**	25	0,44	69,0	460	58

RELUCTANCE MOTORS MUST NOT BE OPERATED IN THE FIELD WEAKENING RANGE

U/f = 3,2! Other U / f - ratios upon request

The torques are admissible in continuous operation on the frequency inverter in the entire speed range without reduction.
The project planning instructions on page 13 must be taken into consideration for the parameterization of the frequency inverters.

Reluctance motors for inverter operation

Frequency range (0)-20-100 Hz

Series **DNK ...Rs** self-ventilated

Type of cooling **IC 411**

Insulation class F, temperature rise B

Degree of protection **IP 55**

Design: 380 V Y-connection - synchronous pull-out torque approx. 150%
special high-temperature grease
bimetal contacts or PTC = mandatory option

Torque Nm	Power at 100 Hz kW	Type	Nominal current at 380 V A	Cos phi	eta %	J kg*cm^2	m kg
4 poles; 600 - 3000 rpm							
1,75	0,55	**DNK 71 B / 4 Rs**	2,5	0,53	63,1	7,4	6,5
2,39	0,75	**DNK 80 A / 4 Rs**	3,6	0,52	60,9	11	8,5
3,50	1,10	**DNK 80 B / 4 Rs**	5,1	0,48	68,3	15	9,5
4,78	1,50	**DNK 90 S / 4 Rs**	6,5	0,48	73,0	24	12,5
5,89	1,85	**DNK 90 L / 4 Rs**	8,0	0,48	73,2	32	15
7,00	2,20	**DNK 100 LA / 4 Rs**	9,2	0,48	75,7	46	20
14,0	4,40	**DNK 112 M / 4 Rs**	18	0,48	77,4	120	32
17,5	5,50	**DNK 132 S / 4 Rs**	24	0,48	72,5	240	46
23,9	7,50	**DNK 132 M / 4 Rs**	31	0,47	78,2	340	58
6 poles; 400 - 2000 rpm							
1,19	0,25	**DNK 71B / 6 Rs**	1,5	0,48	52,8	12	6,5
1,77	0,37	**DNK 80 A / 6 Rs**	2,2	0,48	53,2	22	8,5
2,63	0,55	**DNK 80 B / 6 Rs**	3,0	0,47	59,3	29	9,5
3,58	0,75	**DNK 90 S / 6 Rs**	4,1	0,47	59,1	38	12,5
5,25	1,10	**DNK 90 L / 6 Rs**	6,2	0,47	57,4	51	15
7,16	1,50	**DNK 100 LA / 6 Rs**	7,2	0,46	68,8	78	20
8,83	1,85	**DNK 100 L / 6 Rs**	8,8	0,46	69,4	100	23
14,3	3,00	**DNK 112 ML / 6 Rs**	16,5	0,42	65,8	240	38
19,1	4,00	**DNK 132 S / 6 Rs**	20,0	0,44	69,1	320	46
26,3	5,50	**DNK 132 M / 6 Rs**	27,5	0,44	69,1	460	58

RELUCTANCE MOTORS MUST NOT BE OPERATED IN THE FIELD WEAKENING RANGE

U/f = 3,8! Other U / f - ratios upon request

The torques are admissible in continuous operation on the frequency inverter in the entire speed range without reduction.
The project planning instructions on page 13 must be taken into consideration for the parameterization of the frequency inverters.

Reluctance motors for inverter operation

Frequency range (0)-5-87 Hz and 5 - 120 Hz

Series **DNK ... /46 Rs**

Type of cooling **IC 411+415**

Insulation class F, temperature rise B

Degree of protection **IP 55**

Design: 380 V Y-connection - synchronous pull-out torque approx. 150%
special high-temperature grease
bimetal contacts or PTC = mandatory option

Torque Nm	Power at 87 Hz kW	Type	Nominal current at 380 V A	cos phi	eta %	J kg*cm^2	m kg
4 poles; 150 - 2610 rpm, 5 – 87 Hz, self-ventilated, type of cooling IC 411							
1,70	0,46	**DNK 80 A / 46 Rs**	1,55	0,68	0,66	22	9
2,00	0,55	**DNK 80 B / 46 Rs**	1,55	0,67	0,71	28	10
2,75	0,75	**DNK 90 A / 46 Rs**	2,4	0,66	0,72	38	13
4,0	1,10	**DNK 90 L / 46 Rs**	3,3	0,66	0,77	51	15
5,5	1,50	**DNK 100 L / 46 Rs**	4,25	0,68	0,79	100	23
9,5	2,6	**DNK 112 M / 46 Rs**	7,7	0,67	0,77	190	32
11,0	3,0	**DNK 112 ML / 46 Rs**	8,8	0,68	0,76	240	38
4 poles; 150 - 2610 rpm, 5 – 87 Hz, series DNK ... / 46 RsF, separate ventilator 230 V, type of cooling IC 415							
2,00	0,55	**DNK 80 A / 46 RsF**	1,85	0,68	0,66	22	9
2,75	0,75	**DNK 80 B / 46 RsF**	2,35	0,67	0,72	28	10
4,0	1,10	**DNK 90 S / 46 RsF**	3,6	0,64	0,73	38	13
5,5	1,50	**DNK 90 L / 46 RsF**	5,0	0,64	0,71	51	15
8,0	2,2	**DNK 100 LA / 46 RsF**	6,6	0,67	0,76	78	19
11,0	3,0	**DNK 100 L / 46 RsF**	9,0	0,66	0,77	100	23
14,7	4,0	**DNK 112 M / 46 RsF**	12,0	0,68	0,75	190	32
17,4	4,75	**DNK 112 ML / 46 RsF**	14,0	0,67	0,77	240	38
4 poles; 150 - 3600 rpm, 5 – 120 Hz, self-ventilated, type of cooling IC 411							
Torque Nm	Power at 120 Hz kW	Type	Nominal current at 380 V A	cos phi	eta %	J kg*cm^2	m kg
1,5	0,55	**DNK 80 A / 46 Rs**	1,8	0,67	0,69	22	9
2	0,75	**DNK 80 B / 46 Rs**	2,5	0,67	0,68	28	10
2,9	1,1	**DNK 90 S / 46 Rs**	3,5	0,66	0,72	38	13
4	1,5	**DNK 90 L / 46 Rs**	4,5	0,66	0,77	51	15
5,8	2,2	**DNK 100 L / 46 Rs**	6,8	0,67	0,73	100	23
9,3	3,5	**DNK 112 M / 46 Rs**	10,6	0,67	0,75	190	32
10,6	4	**DNK 112 ML / 46 Rs**	11,8	0,68	0,76	240	38

RELUCTANCE MOTORS MUST NOT BE OPERATED IN THE FIELD WEAKENING RANGE

With motors of the series / 46 R, the instructions on page 14 must be taken into consideration.

The torques are admissible in continuous operation on the frequency inverter in the entire speed range without reduction.
The project planning instructions on page 13 must be taken into consideration for the parameterization of the frequency inverters.

Reluctance motors for mains power supply

Frequency 50 Hz

Series **DNK ...Rs** self-ventilated

Type of cooling **IC 411**

Insulation class F, temperature rise B

Degree of protection **IP 55**

Design: 400 V Y-connection - synchronous pull-out torque approx. 150%
special high-temperature grease

Torque Nm	Power at 50 Hz kW	Type		Nominal current at 380 V A	cos phi	eta %	starting-/ nominal current Ia / In	J kg*cm^2	M Kg
2 poles; 3000 rpm									
0,64	0,2	**DNK**	**71 A / 2 R**	1,0	0,47	61,4	5,7	3,5	6
0,95	0,3	**DNK**	**71 B / 2 R**	1,4	0,47	64,0	5,9	4,6	6,5
1,27	0,4	**DNK**	**80 A / 2 R**	2	0,45	64,1	5,5	6,8	8,5
1,90	0,6	**DNK**	**80 B / 2 R**	3,1	0,44	64,4	5,9	8,5	9,5
2,54	0,8	**DNK**	**90 S / 2 R**	3,8	0,45	68,8	7,0	14	13,5
4,13	1,3	**DNK**	**90 L / 2 R**	5,7	0,45	73,5	7,6	19	16
5,10	1,6	**DNK**	**100 LA / 2 R**	7,0	0,5	66,0	8,1	28	21
6,36	2,0	**DNK**	**100 L / 2 R**	8,8	0,5	65,6	9,1	38	24
9,54	3,0	**DNK**	**112 M/ 2 R**	15,7	0,4	69,0	10,1	63	32
11,1	3,5	**DNK**	**112 M/ 2 R**	18,4	0,38	72,1	11,5	83	39
14,0	4,4	**DNK**	**132 S/ 2 R**	23,3	0,39	69,9	12	140	47
19,1	6,0	**DNK**	**132 M/ 2 R**	32	0,39	69,6	12,3	190	58
4 poles; 1500 rpm									
0,78	0,12	**DNK**	**63 B / 4 R**	0,65	0,52	52,6	4,0	2,6	4,5
1,10	0,17	**DNK**	**71 A / 4 R**	0,78	0,51	61,7	4,3	5,7	6
1,65	0,26	**DNK**	**71 B / 4 R**	1,2	0,51	63,7	4,5	7,4	6,5
2,35	0,37	**DNK**	**80 A / 4 R**	1,7	0,49	64,0	4,5	11	8,5
3,20	0,5	**DNK**	**80 B / 4 R**	2,3	0,48	65,4	4,6	15	9,5
4,80	0,75	**DNK**	**90 S / 4 R**	3,4	0,47	67,6	4,9	24	12,5
6,36	1	**DNK**	**90 L / 4 R**	4,7	0,46	67,2	5,2	32	15
8,90	1,4	**DNK**	**100 LA / 4 R**	6,7	0,44	68,1	7,0	46	20
12,72	2	**DNK**	**100 LB / 4 R**	9,6	0,43	69,9	7,3	61	23
22,3	3,5	**DNK**	**112 M / 4 R**	15,3	0,44	75,2	8,2	120	32
28,0	4,4	**DNK**	**112 ML / 4 R**	18,6	0,44	77,5	8,4	160	38
28,0	4,4	**DNK**	**132 S / 4 R**	18,9	0,43	78,1	8,5	240	46
38,2	6	**DNK**	**132 M / 4 R**	25,7	0,43	78,4	8,6	340	58
6 poles; 1000 rpm			**upon request**						
4 poles; 1500 rpm series 46			**upon request**						