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## Agricultural Motor Starter



CATALOGUE 2022-23



**Lumenx Electrical Private Limited** India's largest manufacturer of low voltage switchgear products introduces the new MN range of starters. These starters are available in Direct-On-Line (DOL) .

This range represents the culmination of intensive R&D and extensive field trials. MN starters, comprising MN contactors and MN relays, provide Overload and Single phasing protection to your motors.



## Selection Chart: Fuse Protected Feeders

### TYPE '2' Co-ordination, Iq=50 kA at 415V, 3Ø, 50 Hz as per IS/IEC 60947-4-1 standard

- The Full Load Current (FLC) indicated for 3-phase motors are of 'squirrel-cage Induction motors' at full load.
- Contactors / S-D-Fs indicated are of the minimum ratings. Higher rating of contactors and S-D-Fs can be used.
- Selection chart is for standard 3-phase, squirrel cage motor with average power factor and efficiency.
- Selection is valid only for complete LUMENX combinations.
- Compliance to Type '2' co-ordination is not assured in case these combinations are changed to accommodate another brand / rating of products like S-D-F / Fuse etc.
- All S-D-F ratings are AC-23A as per IS/IEC 60947-3, IEC 60947-3 & EN 60947-3
- Normal motor starting time (<=5 Sec) is assumed. Selection for motors with longer starting times can be made available on request.
- For detailed Type 2 charts for fuseless feeders, kindly contact the nearest branch office.

### DOL Starter Feeders with Fuse for IE1/IE2 Motors

Motor: 3Ø, 415V, 50 Hz			Contactor Type	Overload Relay		Nominal Backup fuse		S - D - F
hp	kW	In (A)		Type	Range (A)	Type	Rating (A)	
0.16	0.12	0.51	MNX 9	MN 2	0.45 - 0.75	HF	2	FN 32
0.25	0.18	0.6	MNX 9	MN 2	0.45 - 0.75	HF	2	FN 32
0.33	0.25	0.8	MNX 9	MN 2	0.6 - 1.0	HF	2	FN 32
0.5	0.37	1.2	MNX 9	MN 2	0.9 - 1.5	HF	4	FN 32
0.75	0.55	1.5	MNX 9	MN 2	1.4 - 2.3	HF	4	FN 32
1	0.75	2	MNX 9	MN 2	1.4 - 2.3	HF	6	FN 32
1.5	1.1	2.7	MNX 9	MN 2	2.0 - 3.3	HF	8	FN 32
1.75	1.3	3	MNX 9	MN 2	2.0 - 3.3	HF	8	FN 32
2	1.5	3.5	MNX 9	MN 2	3 - 5	HF	10	FN 32
3	2.2	4.9	MNX 9	MN 2	4.5 - 7.5	HF	16	FN 32
4	3	6	MNX 9	MN 2	4.5 - 7.5	HF	16	FN 32
5	3.7	7.5	MNX 9	MN 2	4.5 - 7.5	HF	20	FN 32
5.5	4	8.5	MNX 9	MN 2	6 - 10	HF	20	FN 32
7.5	5.5	11	MNX 12	MN 2	9 - 15	HF	32	FN 32
10	7.5	14.5	MNX 22	MN 2	9 - 15	HF	40	FN 63
12.5	9.3	17.3	MNX 25	MN 2	14 - 23	HF	50	FN 63
15	11	21	MNX 25	MN 2	14 - 23	HF	63	FN 63
17.5	13	24	MNX 25	MN 2	20 - 33	HF	63	FN 63
20	15	29	MNX 40	MN 2	20 - 33	HN, 000*	63	FN 100
25	18.5	35	MNX 40	MN 2	24 - 40	HN, 000*	80	FN 100
30	22	40	MNX 45	MN 5	30 - 50	HN, 000*	80	FN 100
40	30	54	MNX 70	MN 5	45 - 75	HN, 000*	100	FN 100
50	37	68	MNX 80	MN 5	45 - 75	HN, 000	125	FN 125
60	45	81	MNX 95	MN 5	66 - 110	HN, 000	125	FN 125
75	55	94	MNX 95	MN 5	66 - 110	HN, 00#	160	FN 160
100	75	130	MNX 140	MN 12	90 - 150	HN, 0	200	FN 200
110	80	139	MNX 140	MN 12	90 - 150	HN, 0	200	FN 200
120	90	157	MNX 185	MN 12	135 - 225	HN, 1	250	FN 250
150	110	189	MNX 225	MN 12	135 - 225	HN, 1	250	FN 250
170	125	207	MNX 250	MN 12	135 - 225	HN, 1	315	FN 315
180	132	226	MNX 250	MN 12	180 - 300	HN, 1	315	FN 315
200	150	248	MNX 265	MN 12	180 - 300	HN, 2	400	FN 400
215	160	270	MNX 300	MN 12	180 - 300	HN, 2	400	FN 400
240	180	298	MNX 325	MN 12	180 - 300	HN, 2	400	FN 400
270	200	336	MNX 400	MN 12	270 - 450	HN, 3	500	FN 630
300	225	360	MNX 400	MN 12	270 - 450	HN, 3	500	FN 630
335	250	420	MNX 550	MN 12	270 - 450	HN, 3	500	FN 630
370	275	440	MNX 550	MN 12	270 - 450	HN, 3	630	FN 630
425	315	529	MNX 550	MN 12L	340 - 570	HN, 3	630	FN 630
452	335	550	MNX 650	MN 12L	340 - 570	HN, 3	800	FN 800

\* : Only size '000' fuses to be used with FN 100 S-D-F.

# : Only size '00' fuses to be used with FN 160 S-D-F.

## DIRECT ONLINE STARTER

HP	KW	CONTACTOR AMP	O/L RELY AMP	CAT.NO.	LP	MRP
1 HP	0.75kW	20A	1.5A - 2.5A	L01HPDOL	1985	2500
2 HP	1.5W	20A	2.5A - 4A	L02HPDOL	1985	2500
3 HP	2.24kW	20A	4A - 6.5A	L03HPDOL	1985	2500
5 HP	3.73kW	20A	6A - 10A	L05HPDOL	1985	2500
7.5 HP	5.6W	20A	9A - 14A	L75HPDOL	1985	2500
10 HP	7.5kW	20A	13A - 21A	L10HPDOL	1985	2500
15 HP	11kW	20A	20A - 32A	L15HPDOL	2500	4500

## STAR DELTA STARTER

HP	KW	CONTACTOR AMP	O/L RELY AMP	CAT.NO.	LP	MRP
10 HP	7.5kW	18	20-32	LASD10HP	8610	15000
15 HP	11KW	25	20-32	LASD15HP	8610	15000
20 HP	15kW	25	28-42	LASD20HP	8960	15500
25 HP	19kW	32	28-42	LASD25HP	10905	20000
30 HP	22.5W	32	28-42	LASD30HP	12455	21000

## SPARES MOTOR STARTER

PARTICULARS	CAT.NO.	LP	MRP
NO-VOLT COIL	LCOPDOL	250	400
KIT	LKODOL	350	600
RELAY	LRODOL	400	650
CONTACTOR	LCODOL	550	800

## Salient Features:

- Conform to IS 13947 (Part 4) & IEC 60947-4
- Built-in single phasing protection
- In D.O.L Starters, Star contactor has same rating as Hold-on & D.O.L Starters
- Suitable for Industrial & Rural applications
- Terminal block for ease of termination
- Starter enclosure with IP 54° of protection

## Lumenx Electrical Private Limited

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