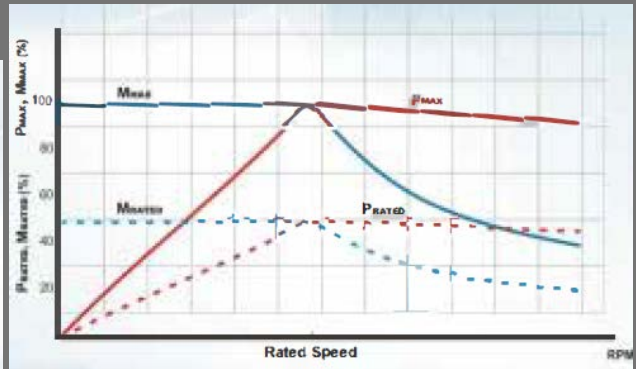


2018

# Brushless DC motors series AL140, AL180, AL180+, AL225, AL225+ with air cooling system

## INNOVATIONS



Item	Battery	Max torque	Rated torque	Max power	Rated power	L	D	Max speed	Rated speed	efficiency	mass	protection	Air cooling	
	V	Nm	Nm	kW	kW	mm	mm	RPM	RPM	%	kg		m <sup>3</sup> /min	
series AL140	AL140LLL	300	315	125	170	75	380	170	12000	6000	93	38	IP 67	50
	AL140LL	240	250	95	135	60	330	170	12000	6000	93	30	IP 67	41
	AL140L	180	180	70	100	40	280	170	12000	6000	93	24	IP 67	32
	AL140S	120	125	45	75	30	220	170	12000	6000	93	18	IP 67	25
	AL140SS	60	65	23	38	14	170	170	12000	6000	93	12	IP 67	18
series AL180	AL180LLL	375	690	250	180	80	380	222	8000	3000	94	59	IP 67	70
	AL180LL	300	550	200	140	60	330	222	8000	3000	94	47	IP 67	57
	AL180L	225	400	150	100	45	280	222	8000	3000	94	37	IP 67	44
	AL180S	150	280	100	70	30	220	222	8000	3000	94	25	IP 67	32
	AL180SS	75	150	50	40	16	170	222	8000	3000	94	15	IP 67	25
series AL180+	AL180LLL+	500	620	250	250	120	380	222	8000	4500	94	59	IP 67	70
	AL180LL+	400	500	200	210	90	330	222	8000	4500	94	47	IP 67	57
	AL180L+	300	300	150	140	70	280	222	8000	4500	94	37	IP 67	44
	AL180S+	200	270	100	100	45	220	222	8000	4500	94	25	IP 67	32
	AL180SS+	100	140	50	50	20	170	222	8000	4500	94	15	IP 67	25
series AL225	AL225LLL	800	1000	380	230	110	380	255	6000	3000	94	76	IP 67	80
	AL225LL	700	800	300	180	90	330	255	6000	3000	94	61	IP 67	65
	AL225L	525	550	240	140	70	280	255	6000	3000	94	49	IP 67	50
	AL225S	350	400	160	100	45	220	255	6000	3000	94	37	IP 67	40
	AL225SS	175	200	80	50	23	170	255	6000	3000	94	25	IP 67	30
series AL225+	AL225LLL+	800	1000	380	290	150	380	255	8000	4000	94	76	IP 67	80
	AL225LL+	700	800	300	210	120	330	255	8000	4000	94	61	IP 67	65
	AL225L+	525	550	240	160	90	280	255	8000	4000	94	49	IP 67	50
	AL225S+	350	400	160	110	60	220	255	8000	4000	94	37	IP 67	40
	AL225SS+	175	200	80	63	30	170	255	8000	4000	94	25	IP 67	30

