

ROOF MOUNTING AXIAL FANS

PERFORMANCE

Unit Code	Norm RPM	Phase	Duty-m ³ /s@Pa									Motor kW	Amps		dBA @ 3m
			0	25	50	75	100	125	150	175	200		FLC	SC	
2 Pole															
RU250/2/1A	2500	1	0.381	0.348	0.261							0.25	1.20	4.80	58
RU250/2/3A	2500	3	0.423	0.392	0.306							0.25	0.50	3.00	58
RU315/2/1P	2500	1	0.868	0.809	0.751	0.716	0.676	0.633	0.591	0.491		0.48	2.20	8.80	58
RU315/2/3P	2500	3	0.868	0.809	0.751	0.716	0.676	0.633	0.591	0.491		0.54	1.00	6.00	58
RU350/2/1P	2000	1	0.942	0.826	0.820	0.748	0.676	0.609	0.543	0.327		0.52	2.45	9.80	56
RU350/2/3P	2000	3	0.942	0.826	0.820	0.748	0.676	0.609	0.543	0.327		0.60	1.86	11.16	56
4 Pole															
RU250/4/1A	1330	1	0.243	0.150								0.06	0.30	1.20	44
RU250/4/3A	1330	3	0.238	0.129	0.075							0.06	0.20	1.20	44
RU315/4/1P	1300	1	0.539	0.430	0.345	0.230						0.10	0.60	2.40	44
RU315/4/3P	1300	3	0.545	0.431	0.364	0.282						0.15	0.30	1.80	48
RU350/4/1P	1225	1	0.631	0.540	0.489							0.20	1.00	4.00	49
RU350/4/3P	1260	3	0.652	0.565	0.489							0.20	0.50	3.00	49
RU400/4/1P	1200	1	0.993	0.894	0.783	0.692	0.588					0.34	1.60	6.40	52
RU400/4/3P	1350	3	1.019	0.893	0.782	0.711	0.610	0.461				0.30	0.80	4.80	52
RU450/4/1P	1290	1	1.221	1.141	1.054	0.960	0.823					0.48	2.32	9.20	57
RU450/4/3P	1230	3	1.265	1.189	1.120	1.033	0.946					0.50	1.00	6.00	57
RU500/4/1P	1290	1	1.835	1.730	1.618	1.516	1.406	1.318	1.230			0.65	3.00	12.00	60
RU500/4/3P	1350	3	1.962	1.835	1.714	1.593	1.515	1.426	1.338			0.66	1.60	9.60	60
RU560/4/1P	1250	1	2.214	2.133	2.004	1.898	1.786					0.98	4.90	19.60	61
RU560/4/3P	1320	3	2.308	2.217	2.106	1.976	1.868	1.566	1.398			1.21	2.30	13.80	62
RU630/4/3P	1420	3	3.691	3.530	3.374	3.240	3.094	2.930	2.700			1.55	3.00	18.00	66
RU630/4/3HP	1360	3	3.881	3.736	3.591	3.433	3.276	3.148	3.028	2.749	2.438	2.20	4.30	25.40	67
6 Pole															
RU350/6/1P	800	1	0.400	0.164	0.115							0.09	0.50	2.00	39
RU350/6/3P	800	3	0.400	0.164	0.115							0.09	0.30	1.80	40
RU400/6/1P	750	1	0.594	0.463	0.165							0.11	0.60	2.40	39
RU400/6/3P	750	3	0.594	0.463	0.165							0.11	0.30	1.80	40
RU450/6/1P	835	1	0.840	0.718	0.494							0.22	1.20	4.80	46
RU450/6/3P	835	3	0.840	0.718	0.494							0.19	0.50	3.00	46
RU500/6/1P	840	1	1.259	1.062	0.942	0.786						0.29	1.60	6.40	49
RU500/6/3P	840	3	1.259	1.062	0.942	0.786						0.25	0.50	3.00	48
RU560/6/1P	900	1	1.436	1.220	1.087	0.906	0.704					0.42	2.40	9.60	52
RU560/6/3P	900	3	1.436	1.220	1.087	0.906	0.704					0.41	0.90	5.40	52
RU630/6/1P	800	1	2.302	2.059	1.856	1.636	1.428					0.51	2.60	10.40	53
RU630/6/3P	800	3	2.302	2.059	1.856	1.636	1.428					0.46	1.20	7.20	53
8 Pole															
RU630/8/1P	585	1	1.797	1.476	1.160							0.32	1.70	6.80	46
RU630/8/3P	585	3	1.797	1.476	1.160							0.31	0.80	4.80	46

FLC = Full Load Current SC = Starting Current

ROOF MOUNTING AXIAL FANS

ACCESSORIES

Unit Code	Electronic Controller Code	Auto transformer Controller Code	D.O.L. Starter Code	Shutters Code	Birdguard Code	Adaptor Units (Purlin Box) Code
2 Pole						
RU250/2/1A	-	-	RDO1D			
RU250/2/3A			RDO3B	SU20/25	BG20/25	AA20
RU315/2/1A	-	-	RDO1E			
RU315/2/3A			RDO3D	SU31/35A	BG31/35A	AU31/35A
RU350/2/1P	-	-	RDO1F			
RU350/2/3P			RDO3E	SU31/35A	BG31/35A	AU31/35A
4 Pole						
RU250/4/1A	SP5001	SPM5026	RDO1A			
RU250/4/3A		RDTK 1	-	SU20/25	BG20/25	AA20
RU315/4/1P	SP5001	SPM5026	RDO1B			
RU315/4/3P		RDTK 1	RDO3A	SU31/35A	BG31/35A	AU31/35A
RU350/4/1P	SP5001	SPM5026	RDO1D			
RU350/4/3P		RDTK 1	RDO3B	SU31/35A	BG31/35A	AU31/35A
RU400/4/1P	SP5025	SPM5026	RDO1E			
RU400/4/3P		RDTK 1	RDO3C	SU40/45A	BG40/45A	AU40/45A
RU450/4/1P	SP5025	SPM5055	RDO1E			
RU450/4/3P		RDTK 2	RDO3D	SU40/45A	BG40/45A	AU40/45A
RU500/4/1P	SP5050	SPM5055	RDO1F			
RU500/4/3P		RDTK 2	RDO3E	SU50/56A	BG50/56A	AU50A
RU560/4/1P	-	SPM5070	RDO1G			
RU560/4/3P		RDTK 4	RDO3E	SU50/56A	BG50/56A	AU56A
RU630/4/3P	-	*	RDO3F			
RU630/4/3HP		*	RDO3G	SU63A	BG63A	AU63A
6 Pole						
RU350/6/1P	SP5001	SPM5026	RDO1B			
RU350/6/3P		RDTK 1	RDO3A	SU31/35A	BG31/35A	AU31/35A
RU400/6/1P	SP5001	SPM5026	RDO1B			
RU400/6/3P		RDTK 1	RDO3A	SU40/45A	BG40/45A	AU40/45A
RU450/6/1P	SP5001	SPM5026	RDO1D			
RU450/6/3P		RDTK 1	RDO3B	SU40/45A	BG40/45A	AU40/45A
RU500/6/1P	SP5025	SPM5026	RDO1E			
RU500/6/3P		RDTK 1	RDO3B	SU50/56A	BG50/56A	AU50A
RU560/6/1P	SP5050	SPM5055	RDO1F			
RU560/6/3P		RDTK 2	RDO3C	SU50/56A	BG50/56A	AU56A
RU630/6/1P	SP5050	SPM5055	RDO1F			
RU630/6/3P		RDTK 2	RDO3D	SU63A	BG63A	AU63A
8 Pole						
RU630/8/1P	SP5025	SPM5026	RDO1E			
RU630/8/3P		RDTK 1	RDO3C	SU63A	BG63A	AU63A

- When speed control is required on all 1 phase fans a 5 step auto transformer speed controller is recommended, to ensure low noise levels

All * models are suitable for frequency inverter speed control

Motorised shutters available on request

ROOF MOUNTING AXIAL FANS

ACCESSORIES

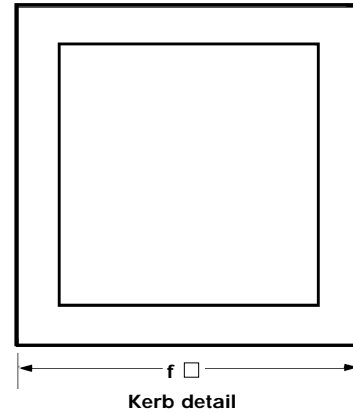
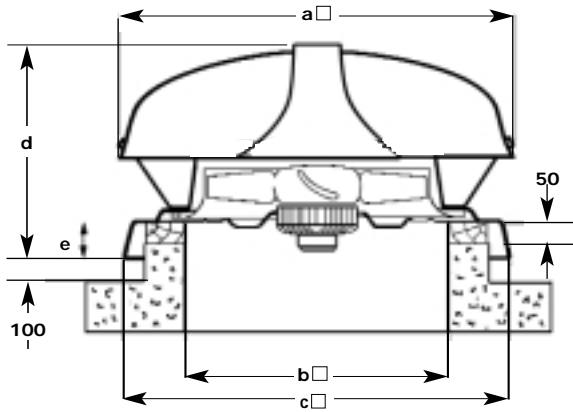
Unit Code	Drop in Curb Attenuator (600mm) Code	Drop in Curb Attenuator (900mm) Code	Drop in Curb Attenuator (1200mm) Code	Purlin Trimmers Code	Roof Cowl Assembly ONLY (No Fan) Code
2 Pole					
RU250/2/1A RU250/2/3A	DS20/600	DS20/900	-	PT	RU20/25A
RU315/2/1P RU315/2/3P	DS31/600	DS31/900	DS31/1200	PT	RU31/35P
RU350/2/1P RU350/2/3P	DS31/600	DS31/900	DS31/1200	PT	RU31/35P
4 Pole					
RU250/4/1A RU250/4/3A	DS20/600	DS20/900	-	PT	RU20/25A
RU315/4/1P RU315/4/3P	DS31/600	DS31/900	DS31/1200	PT	RU31/35P
RU350/4/1P RU350/4/3P	DS31/600	DS31/900	DS31/1200	PT	RU31/35P
RU400/4/1P RU400/4/3P	DS40/600	DS40/900	DS40/1200	PT	RU40/45P
RU450/4/1P RU450/4/3P	DS40/600	DS40/900	DS40/1200	PT	RU40/45P
RU500/4/1P RU500/4/3P	DS50/600	DS50/900	DS50/1200	PT	RU50/56P
RU560/4/1P RU560/4/3P	DS50/600	DS50/900	DS50/1200	PT	RU50/56P
RU630/4/3P RU630/4/3HP	DS63/600	DS63/900	DS63/1200	PT	RU63P
6 Pole					
RU350/6/1P RU350/6/3P	DS31/600	DS31/900	DS31/1200	PT	RU31/35P
RU400/6/1P RU400/6/3P	DS40/600	DS40/900	DS40/1200	PT	RU40/45P
RU450/6/1P RU450/6/3P	DS40/600	DS40/900	DS40/1200	PT	RU40/45P
RU500/6/1P RU500/6/3P	DS50/600	DS50/900	DS50/1200	PT	RU50/56P
RU560/6/1P RU560/6/3P	DS50/600	DS50/900	DS50/1200	PT	RU50/56P
RU630/6/1P RU630/6/3P	DS63/600	DS63/900	DS63/1200	PT	RU63P
8 Pole					
RU630/8/1P RU630/8/3P	DS63/600	DS63/900	DS63/1200	PT	RU63P

ROOF MOUNTING AXIAL FANS

SOUND POWER LEVEL SPECTRA dB (RE 10⁻¹² WATTS)

Model		Mid Octave Bands								dBA @ 3m
		63	125	250	500	1000	2000	4000	8000	
2 Pole										
RU250/2	Inlet	71	79	80	81	74	72	66	60	61
	Outlet	65	74	80	76	75	69	65	59	58
RU315/2	Inlet	74	80	81	75	77	76	72	66	61
	Outlet	73	71	75	71	75	72	69	64	58
RU350/2	Inlet	73	81	81	76	72	74	70	62	59
	Outlet	72	72	75	72	70	70	67	60	56
4 Pole										
RU250/4	Inlet	61	65	63	65	58	55	48	40	44
	Outlet	63	64	63	62	57	54	50	39	43
RU315/4	Inlet	64	68	70	65	62	60	57	53	48
	Outlet	61	66	68	68	62	58	53	48	48
RU350/4	Inlet	74	76	75	70	67	64	56	48	52
	Outlet	66	72	71	66	62	61	59	52	49
RU400/4	Inlet	78	78	80	72	70	67	62	56	56
	Outlet	73	75	74	70	66	62	61	54	52
RU450/4	Inlet	76	82	83	74	73	70	65	59	58
	Outlet	78	80	83	73	70	65	61	55	57
RU500/4	Inlet	86	86	87	78	77	73	65	60	62
	Outlet	84	85	85	77	74	70	64	59	60
RU560/4	Inlet	83	86	85	80	80	77	71	65	64
	Outlet	81	85	83	79	77	74	70	64	62
RU630/4	Inlet	83	90	91	83	81	82	77	71	68
	Outlet	81	89	89	82	79	79	76	70	66
RU630/4H	Inlet	87	92	88	85	84	82	76	69	69
	Outlet	85	91	86	84	82	79	75	68	67
6 Pole										
RU350/6	Inlet	67	64	65	60	56	53	45	35	42
	Outlet	61	60	63	58	54	53	48	40	40
RU400/6	Inlet	66	68	67	60	58	55	48	37	43
	Outlet	65	62	63	58	55	52	47	40	40
RU450/6	Inlet	72	71	72	64	62	60	54	46	48
	Outlet	70	72	72	62	60	55	49	40	46
RU500/6	Inlet	77	73	74	69	65	60	50	43	50
	Outlet	77	72	72	68	63	57	49	42	49
RU560/6	Inlet	76	79	75	71	69	66	58	55	54
	Outlet	74	78	73	70	67	63	57	51	52
RU630/6	Inlet	83	79	76	77	70	69	61	55	57
	Outlet	81	78	74	71	68	66	60	54	53
8 Pole										
RU630/8	Inlet	76	73	68	64	62	61	54	47	47
	Outlet	74	72	66	63	60	58	53	46	46

ROOF MOUNTING AXIAL FANS



FAN DIMENSIONS (mm)

size	a	b	c	d	e	f	Carriage weight kg
250	485	325	480	275	80	425	17.00
315	700	400	680	365	83	600	14.50
350							16.25
400	800	500	780	405	83	700	19.75
450							25.00
500	950	650	930	520	103	850	31.75
560							41.00
630	1230	790	1055	590	103	990	51.25

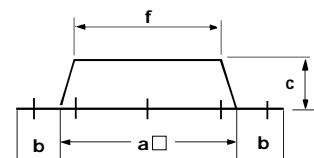
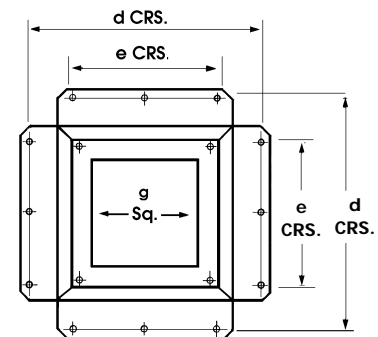
AIR OPERATED SHUTTERS

Size	Percentage reduction in performance at 4 pole speeds
250	7%
315	7%
350	12%
400	10%
450	3%
500	4%
560	6%
630	3%

For 2 & 6 pole fans, increase or reduce percentage by ratio of fan speeds.

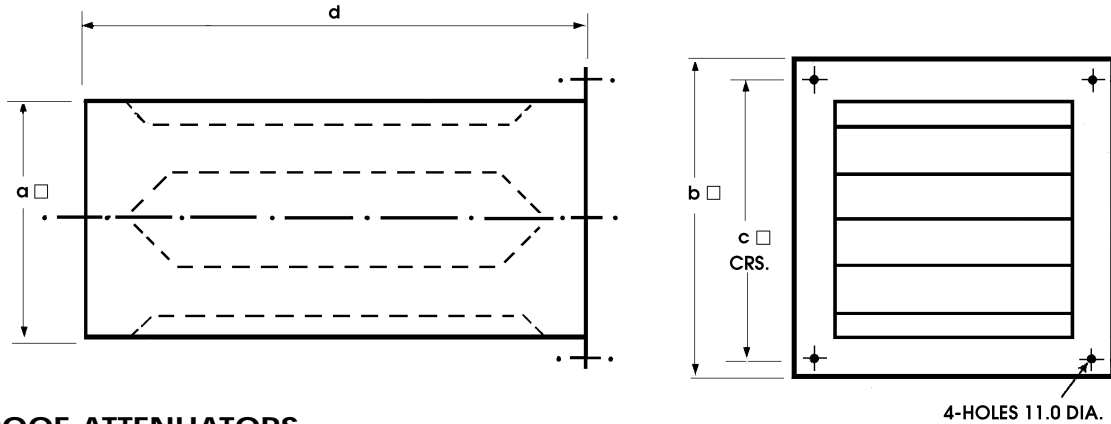
PURLIN BOX

size	a	b	c	d	e	f	g
250	416	90	220	528	380	400	340
315/350	625	90	240	765	400	605	420
400/450	725	90	240	865	500	705	530
500	890	70	250	990	650	850	650
560	890	70	250	990	650	870	700
630	1030	75	250	1140	760	985	795



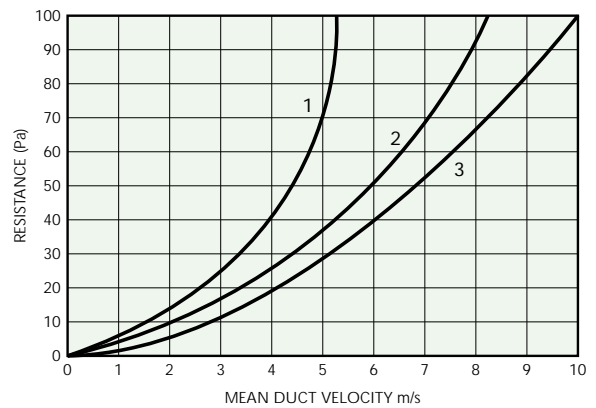
ROOF MOUNTING AXIAL FANS

SILENCERS



ROOF ATTENUATORS

Stock Ref. No.	a	b	c	d	Kg approx	Resistance Curve
DS20/600	310	420	370	600	14	1
DS31/600	395	495	445	600	18	1
DS40/600	495	595	545	600	22	2
DS50/600	645	745	695	600	31	2
DS63/600	785	885	835	600	44	3
DS20/900	310	420	370	900	18	1
DS31/900	395	495	445	900	21	1
DS40/900	495	595	545	900	28	2
DS50/900	645	745	695	900	39	2
DS63/900	785	885	835	900	52	3
DS31/1200	395	495	445	1200	25	1
DS40/1200	495	595	545	1200	35	2
DS50/1200	645	745	695	1200	48	2
DS63/1200	785	885	835	1200	61	3



* Recommended maximum duty velocity 10m/s

ROOF ATTENUATOR, INSERTION LOSSES

Attenuator Length 600mm									
Impeller Ø	Stock Ref. No.	63	125	250	500	1K	2K	4K	8K
250	DS20/600	1	3	8	14	17	17	17	13
315/350	DS31/600	2	4	9	16	20	22	18	14
400/450	DS40/600	2	4	8	15	18	20	17	13
500/560	DS50/600	2	4	9	16	20	22	18	14
630	DS63/600	2	4	8	15	18	20	17	13

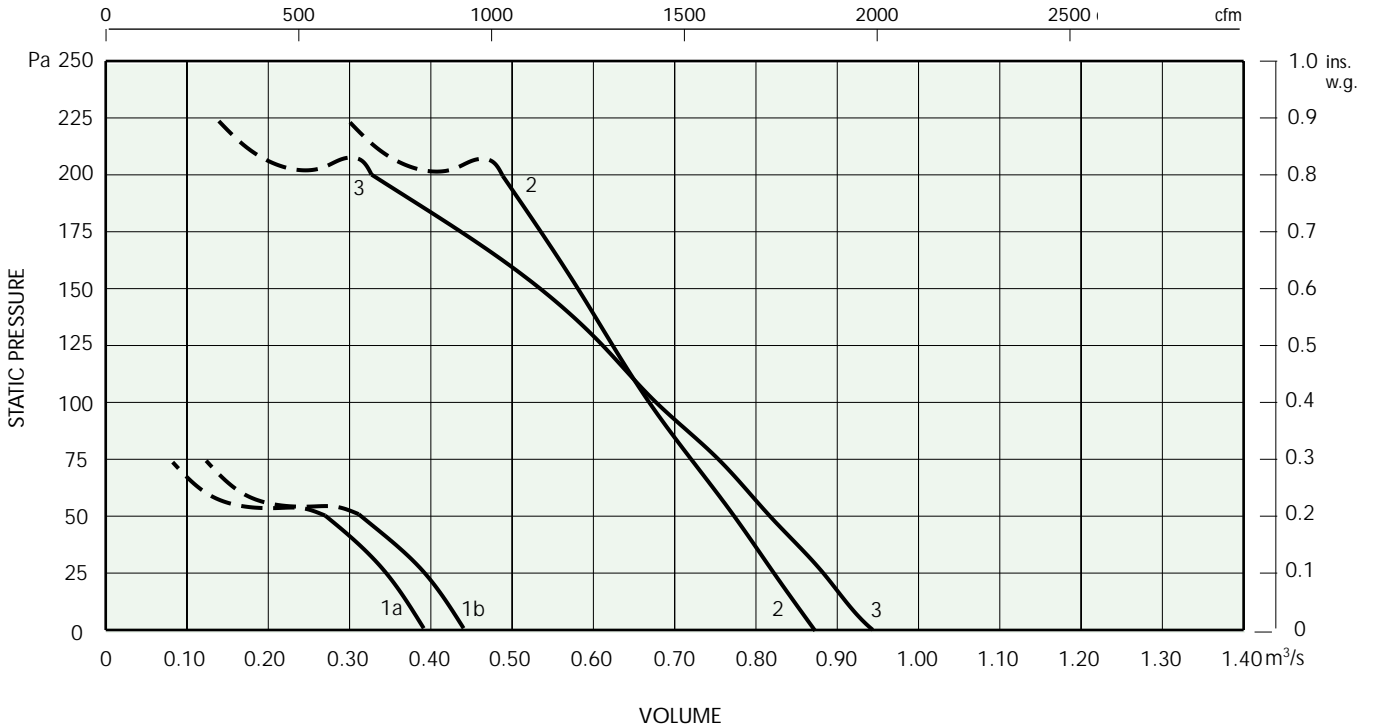
Attenuator Length 900mm									
Impeller Ø	Stock Ref. No.	63	125	250	500	1K	2K	4K	8K
250	DS20/900	2	6	12	17	22	22	22	19
315/350	DS31/900	3	6	13	22	30	31	22	17
400/450	DS40/900	2	6	12	20	25	27	20	16
500/560	DS50/900	3	6	13	22	30	31	22	17
630	DS63/900	2	6	12	20	25	27	20	16

Attenuator Length 1200mm									
Impeller Ø	Stock Ref. No.	63	125	250	500	1K	2K	4K	8K
315/350	DS31/1200	4	9	16	28	34	35	23	19
400/450	DS40/1200	4	8	15	26	32	33	21	18
500/560	DS50/1200	4	9	16	28	34	35	23	19
630	DS63/1200	4	8	15	26	32	33	21	18

ROOF MOUNTING AXIAL FANS

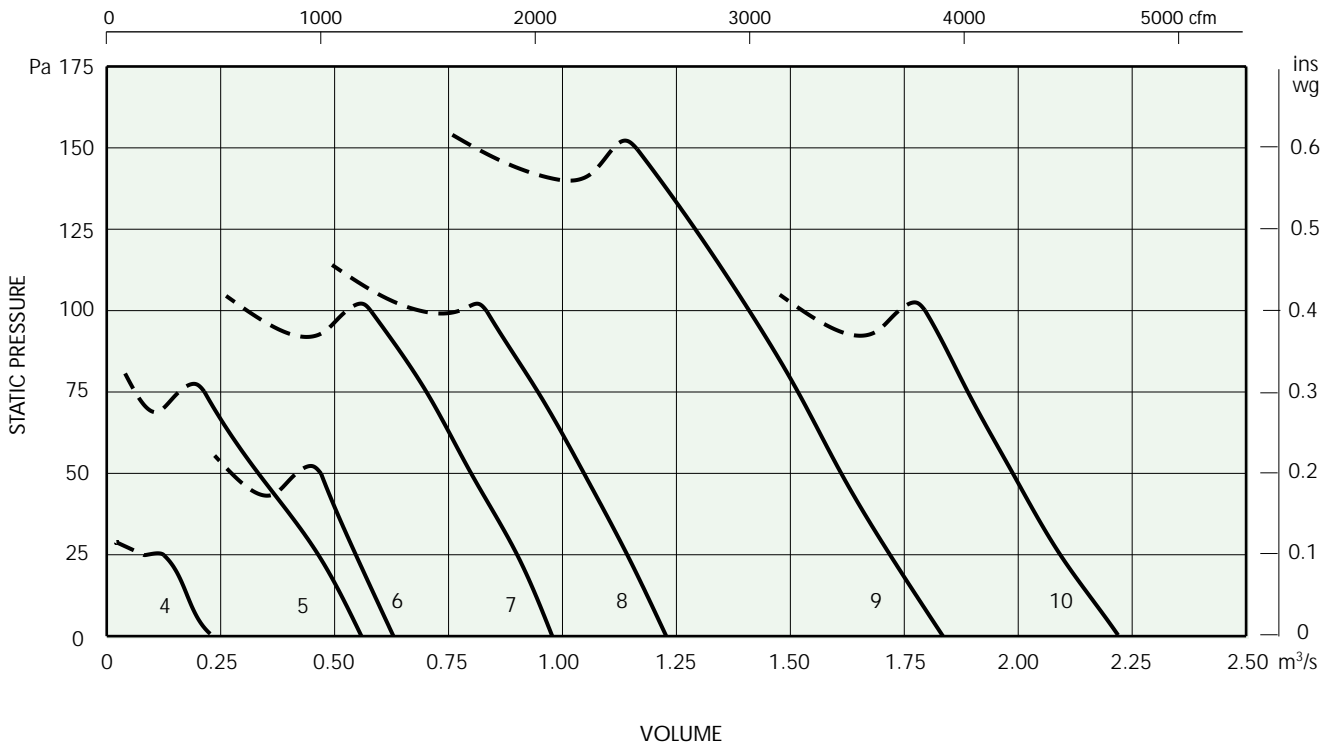
PERFORMANCE CURVES

250 to 350Ø - 2 Pole



Size	250-1	250-3	315	350
	1a	1b	2	3

250 to 560Ø - 4 Pole, 1 Phase

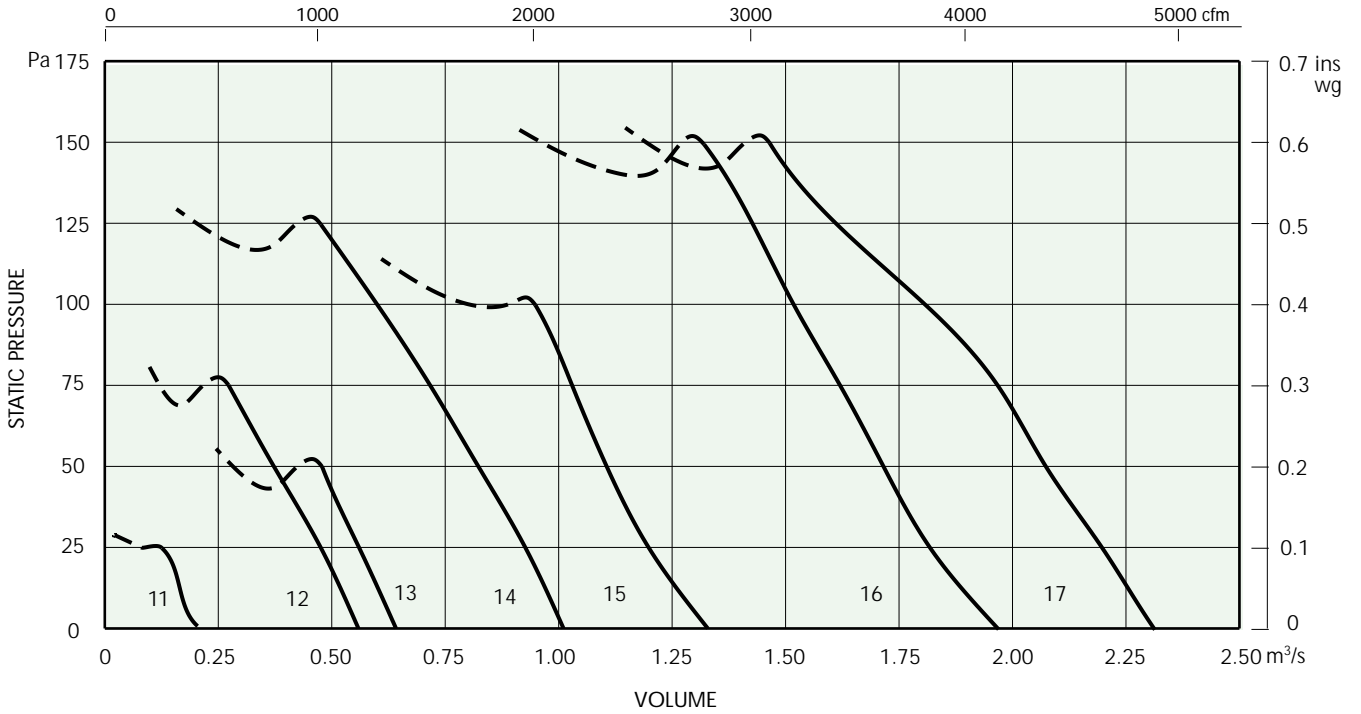


Size	250	315	350	400	450	500	560
	4	5	6	7	8	9	10

ROOF MOUNTING AXIAL FANS

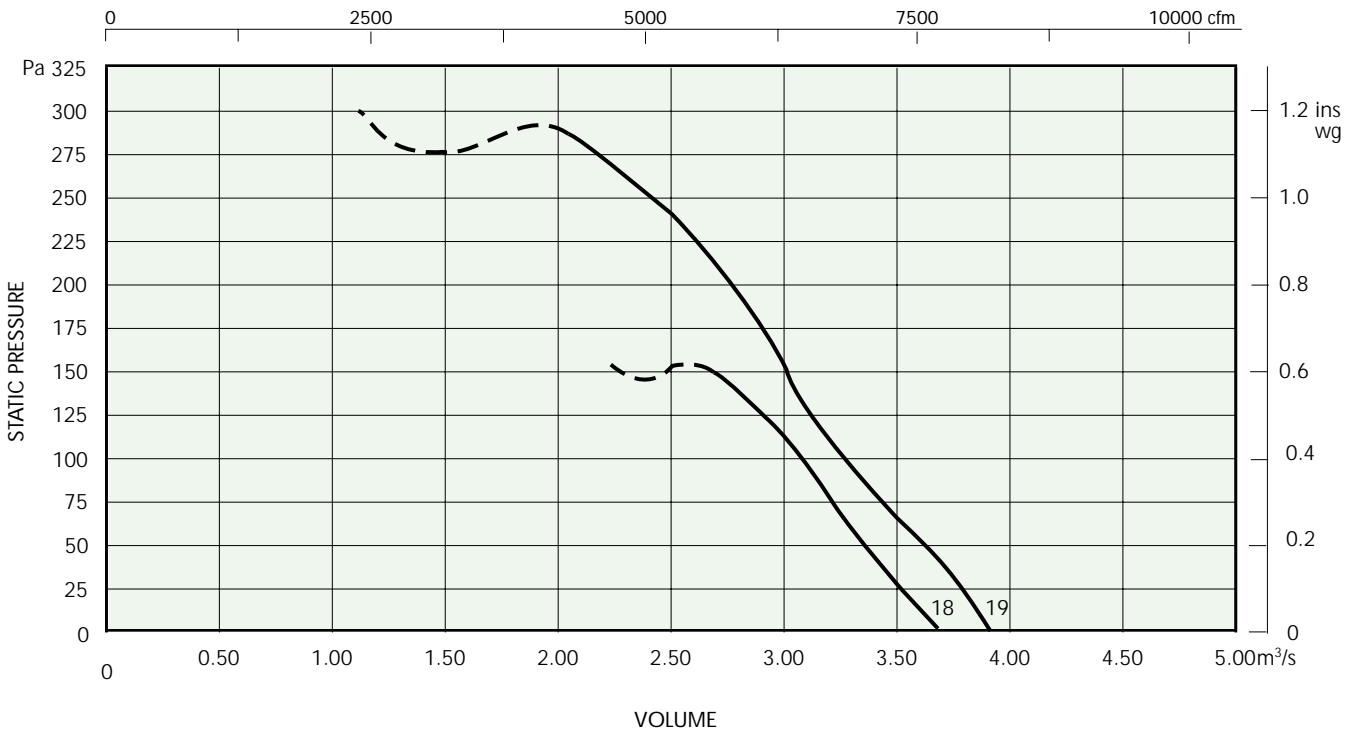
PERFORMANCE CURVES

250 to 560 Ø - 4 Pole, 3 phase



Size	250	315	350	400	450	500	560
	11	12	13	14	15	16	17

630 Ø - 4 Pole, 3 Phase

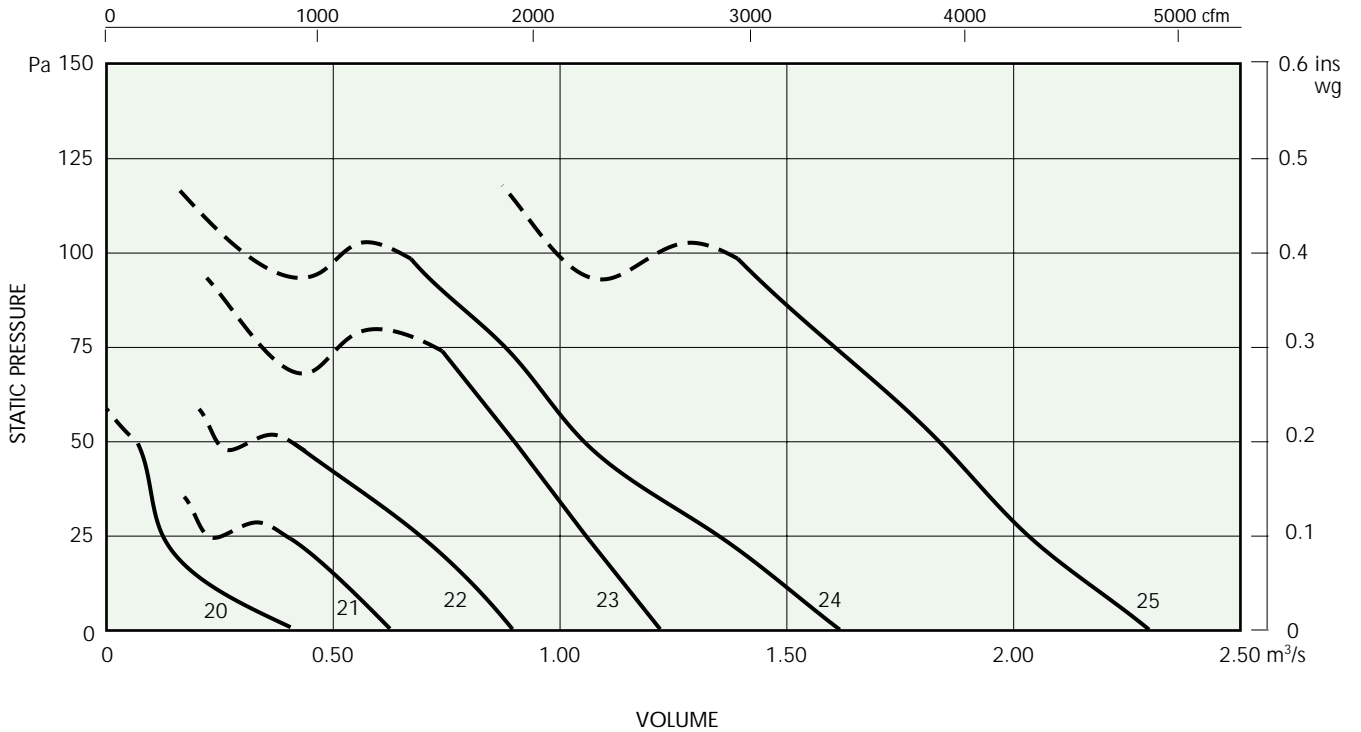


Size	630-3	630-3H
	18	19

ROOF MOUNTING AXIAL FANS

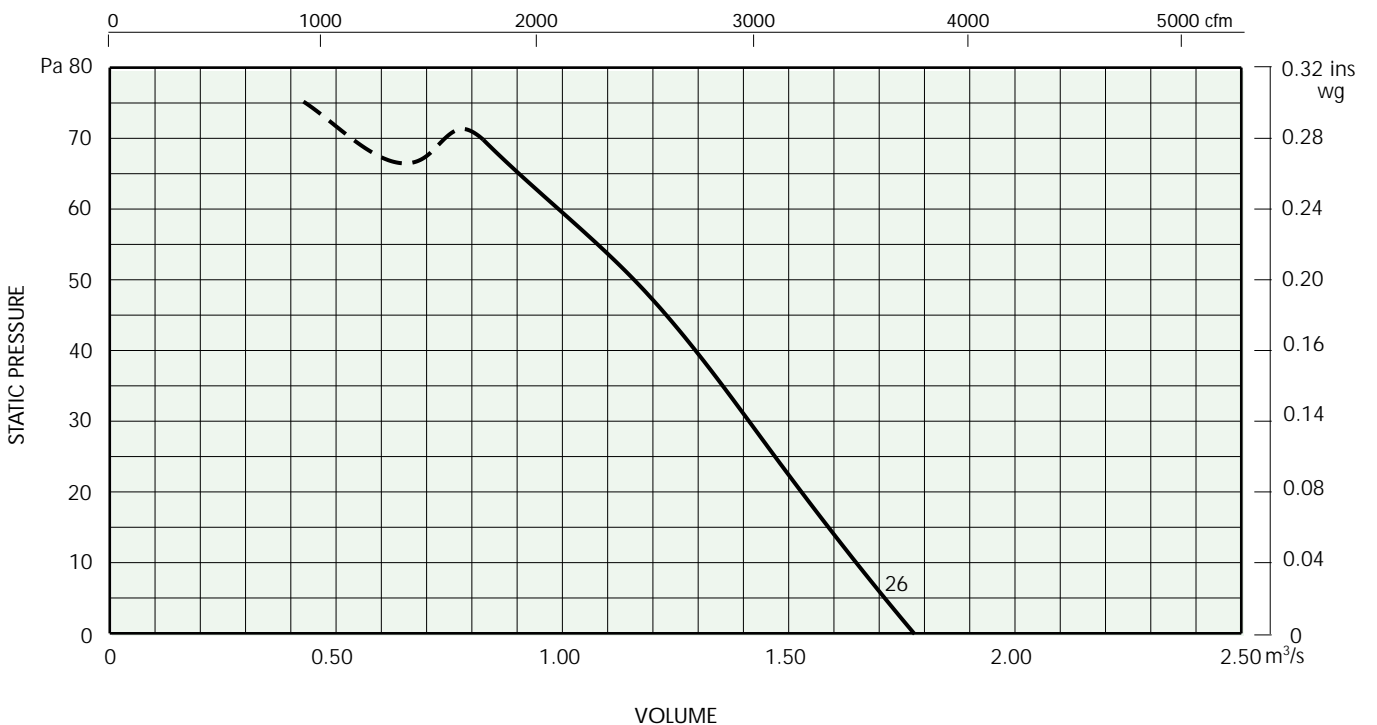
PERFORMANCE CURVES

350 to 630 Ø - 6 Pole



Size	350	400	450	500	560	630
	20	21	22	23	24	25

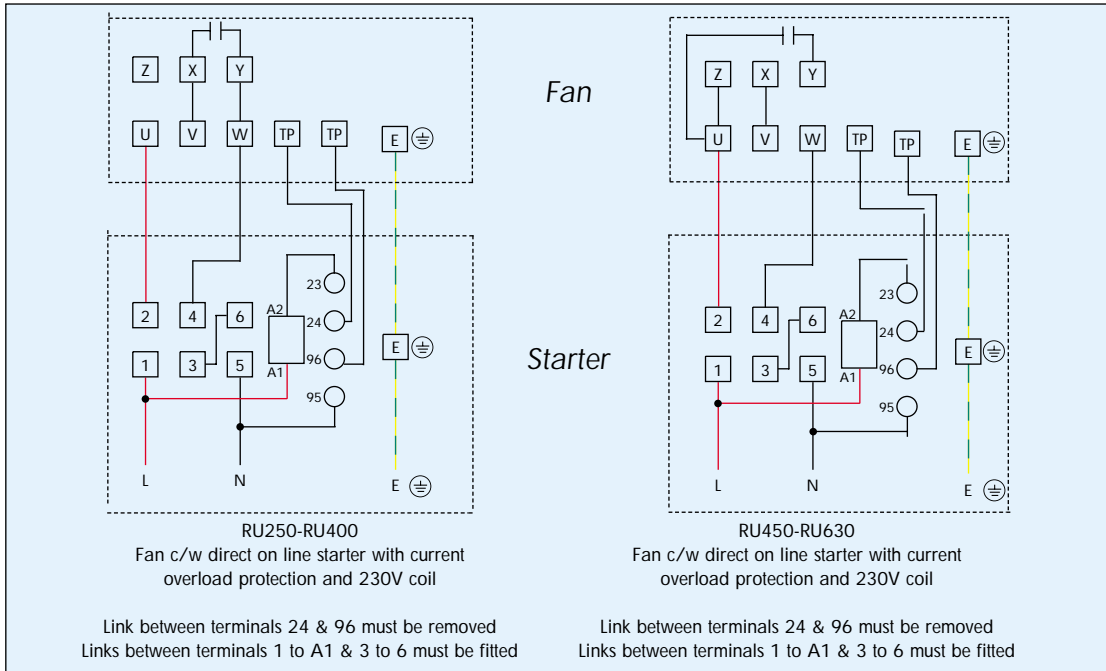
630 Ø - 8 Pole



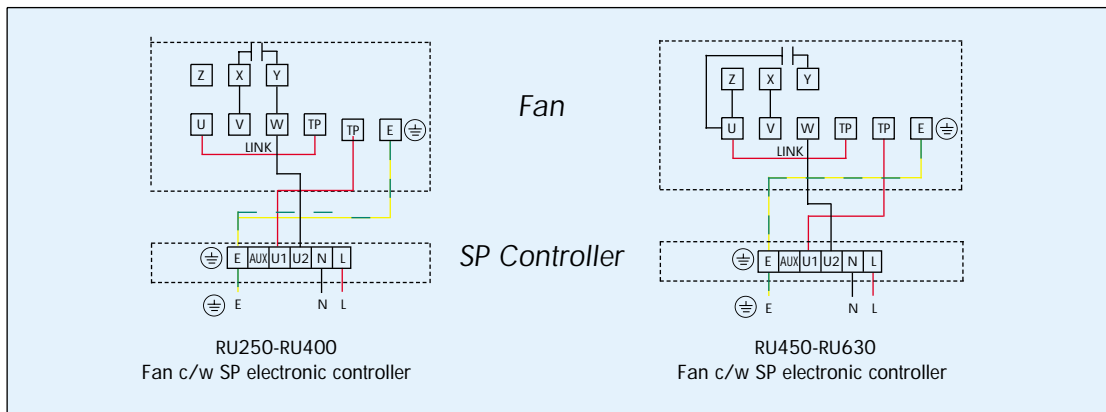
Size	630
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SINGLE PHASE ROOF MOUNTED AXIAL FANS WIRING DIAGRAMS 230V 1PH 50Hz SUPPLY

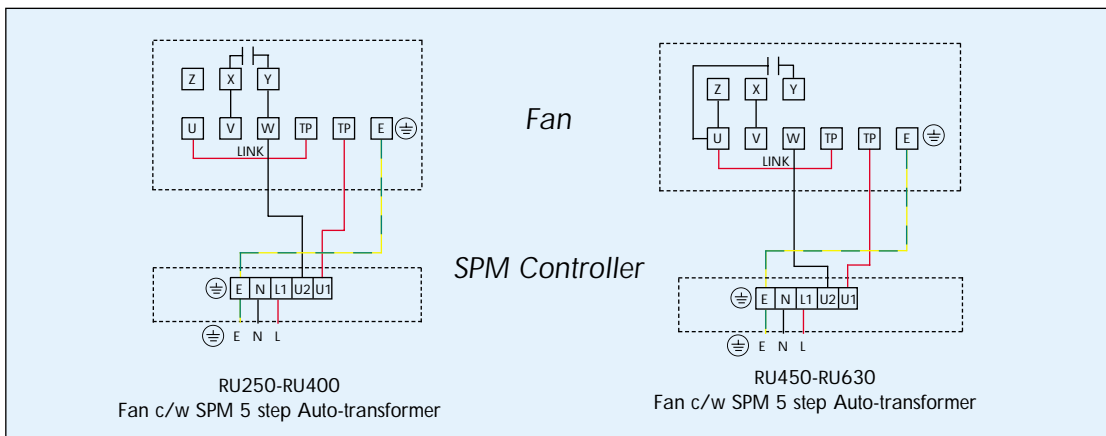
D.O.L. STARTER WIRING DIAGRAMS



SINGLE PHASE ELECTRONIC SPEED CONTROLLER WIRING DIAGRAMS



SINGLE PHASE AUTO TRANSFORMER SPEED CONTROLLER WIRING DIAGRAMS

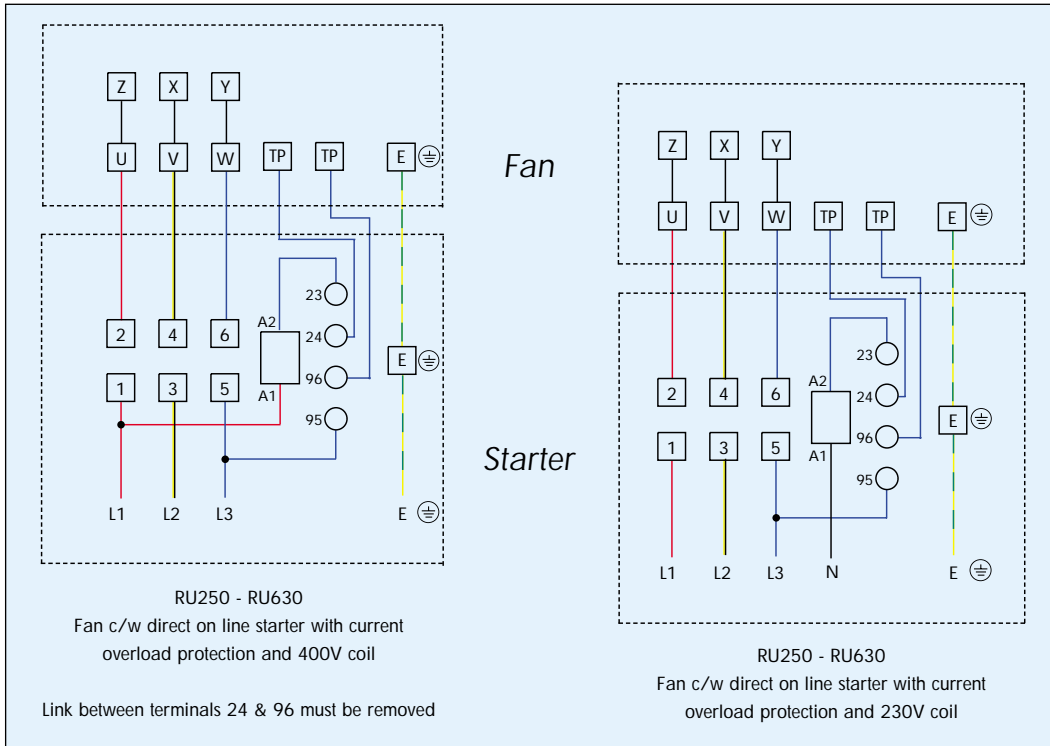


These products must be installed by a suitably qualified and competent person in accordance with current applicable regulations

Note: 2 pole units are not speed controllable

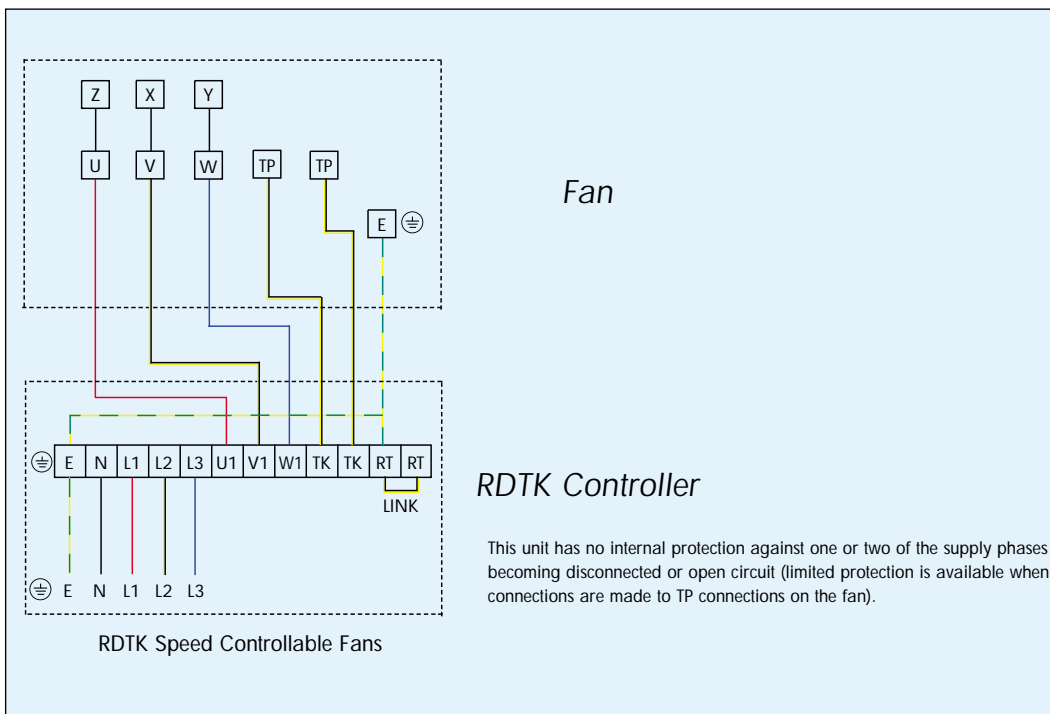
THREE PHASE ROOF MOUNTED AXIAL FANS WIRING DIAGRAMS 400V 3PH 50Hz SUPPLY

D.O.L. STARTER WIRING DIAGRAM



Link between terminals 24 & 96 must be removed

THREE PHASE AUTO TRANSFORMER SPEED CONTROLLER WIRING DIAGRAM



These products must be installed by a suitably qualified and competent person in accordance with current applicable regulations