

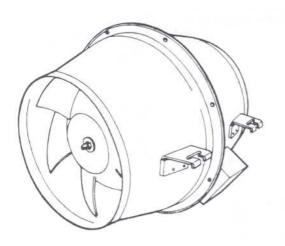
INSTRUCTION MANUAL

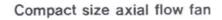
Compact size axial flow fan

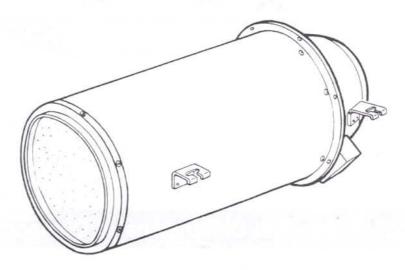
K 25DSF1	K28DSR	K28DSM	K35DSM	K40DSL
K40DTL	K40DSH	K40DTH	K45DST	K45DTT
K45DSL	K45DTL	K45DTH	K55DTL	K55DTH

Low noise type compact size axial flow fan

K25USF1	K28USR	K28USM	K35USM	K40USL
K40UTL	K40USH	K40UTH	K45UST	K45UTT
K45USL	K45UTL	K45UTH	K55UTL	K55UTH





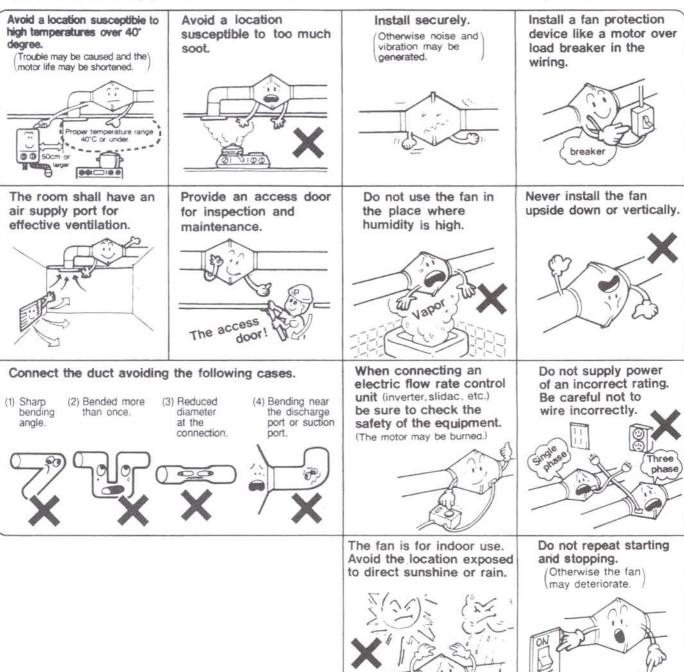


Low noise type compact size axial flow fan

Thank you for purchasing the **KDK** Compact or Low noise type compact size axial flow fans. Please be sure to always follow the details of these instructions in installing and using your unit, otherwise sudden accidents or breakdowns will occur. Hence we strongly urge both the installer and the final user to read these instructions carefully, So that the unit can be used safely throughout its service life.

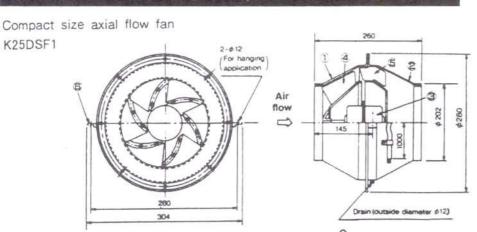
1. Installation Cautions

Observe the following precautions as to the place of installation and the installation procedure.



2. Names and Dimensions of Components

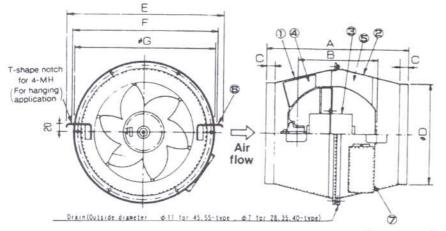
Dimensions (mm)



No.	Parts name	Q'ty
1	Casing A	1
2	Casing B	1
3	Motor	1
4	Wheel	1
5	Guide vanes	4
6	Hanger fittings	2

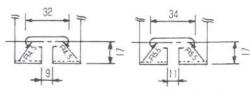
12 times or less per day

K28DSR K28DSM K35DSM K40DSL K40DTL K40DSH K40DTH K45DST K45DTT K45DSL K45DTL K45DTH K55DTL K55DTH



No.	Parts name	Q'ty
1	Casing A	1
2		
3	Motor	1
4	Wheel	1
5	Guide vanes	7
6	Hanger fittings	4
7	Terminal cover	1

Detail of hanger fittings



Applied model number
K28DSR K28USR
K28DSM K28USM
K35DSM K35USM
K40DSL K40USL
K40DTL K40UTL
K40DSH K40USH
K40DTH K40UTH

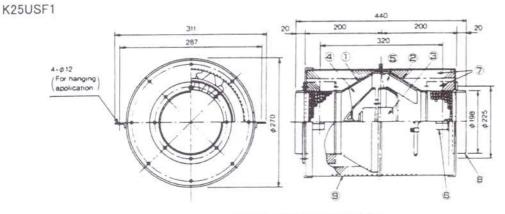
Applied model number
K45DST K45UST
K45DTT K45UTT
K45DSL K45USL
K45DTL K45UTL
K45DTH K45UTH
K55DTL K55UTL
K55DTH K55UTH

Di	men	Sion	5 (1	mm)

Model number	A	В	C	D	E	F	G	Н
K28DSR, K28DSM	350	197	22	248	400	366	350	8
K35DSM .	410	206	21.5	298	460	426	415	8
K40DSL, K40DTL, K40DSH, K40DTH	480	206	26	347	525	491	480	8
K45DST, K45DTT, K45DSL, K45DTL, K45DTH	540	218	25.5	394	588	554	546	10
KSSDTL, KSSDTH	680	217	25	445	673	639	631	10

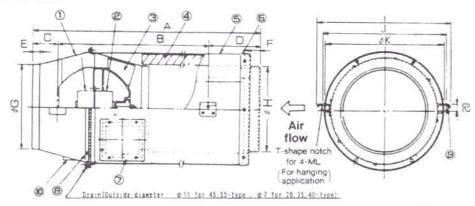
Low noise type compact size axial flow fan

Dimensions (mm)



No.	Parts name	ON
1	Casing A	1
2	Casing B	1
3	Motor	1
4	Wheel	1
5	Guide vanes	4
6	Hanger fitting	4
7	Sound absorbing material	
8	Side panel assy.	2
9	Duct assy.	2

K28USR K28USM K35USM K40USL K40UTL K40USH K40UTH K45UST K45UTT K45USL K45UTL K45UTH K55UTL K55UTH



No	Parts name	Q ty
1	Fan body	1
2	Motor	. 1
3	Wheel	1
4	Sound absorbing material	1
5	Duct assy	1
6	Side panel assy.	1
7	Cover	1
8	Plastic rivet	11.
9	Hanger fittings	4
10	Terminal cover	1

Model number	Q ty
K28DSR K28USR	
K28DSM K28USM	
K35DSM K35USM	
K40DSL K40USL	8
K40DTL K40UTL	
K40DSH K40USH	
K40DTH K40UTH	
K45DST K45UST	
K45DTT K45UTT	
K45DSL K45USL	
K45DTL K45UTL	12
K45DTH K45UTH	
K55DTL K55UTL	
K55DTH K55UTH	1

		Dimensi	onsimm
		Contract of the Contract of th	

Model number	Α	В	С	D	Е	F	G	Н	Ţ.	J	K	L
K28USR, K28USM	882	600	77	205	22	30	248	249	400	366	350	8
K35USM	948	606	102	240	21.5	30	298	299	460	426	415	8
K40USL, K40UTL, K40USH, K40UTH	1049	571	137	341	26	30	347	347	525	491	480	8
K45UST, K45UTT, K45USL, K45UTL, K45UTH	1085	494	161	430	25.5	30	394	396	588	554	546	10
K55UTL, K55UTH	1232	413	231	588	25	30	445	447	673	639	631	10

3. Maintenance Cautions

Perform maintenance inspection and cleaning approximately once a year so that the fan is operated safely for a long time. It is recommended that the maintenance inspection should be conducted by the subcontractor of the electrician to prevent the fan from having any accident due to damaged parts deriving from aging and ensure long life and safe operation of the fan.

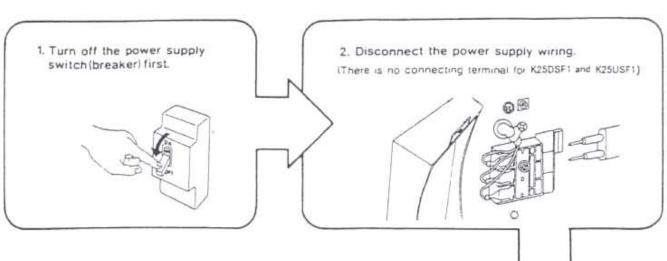
3-1 Replacement parts

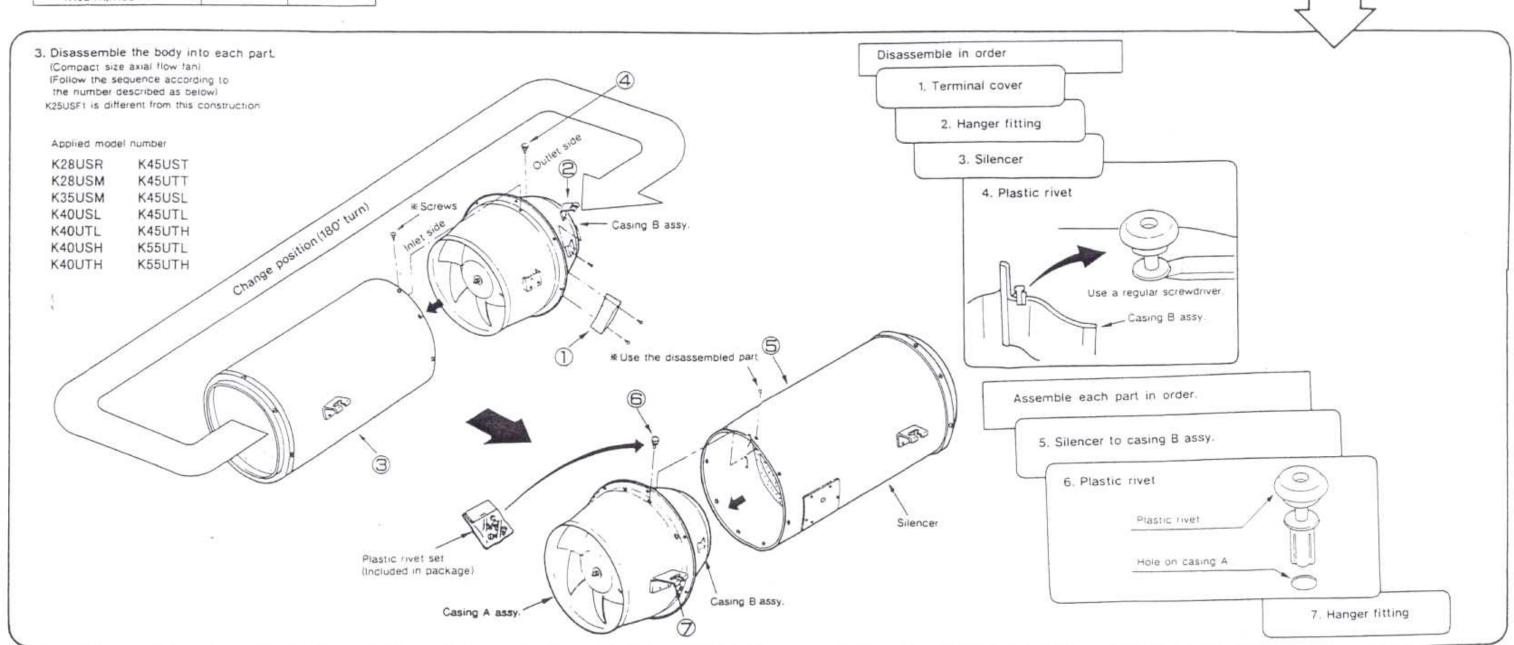
Motor bearing (Supposed service life-about 20,000 hours)
The bearing service life depends on how it is used.
Renew the bearing every time when an abnormal sound is heard.

Model number	D.end	Non-D end	Model number	D.end	Non-D.end
K25DSF1, K25USF1	===		K45DST,K45UST	620522	
K28DSR, K28USR	6200ZZ	6200ZZ	K45DTT,K45UTT	620422	1
K2BDSM, K28USM			K45DSL,K45USL	620522	6203ZZ
K35DSM, K35USM			K45DTL,K45UTL		1
K40DSLK40USL			K45DTH,K45UTH	6204ZZ	
K40DTLK40UTL	6202ZZ	520222	K55DTL,K55UTL	620E77	6204ZZ
K40DSH,K40USH		020222	K55DTH,K55UTH	6205ZZ	
K40DTH K40UTH					-

3-2 Overhauling procedure

When overhauling is necessary, like in the case when the motor has to be changed, observe the following procedure. (Be sure to wear gloves for safety)





4. After-sale Service

(1) Trouble shooting

Examine the following table to determine and rectify the problem. If the fan still does not work, disconnect power source and contact to the local dealer.

Problem	Inadequate air flow	Excessive noise	Excessive vibration	Overheated motor	Countermeasure
Poor foundation		0	0		Reinforce foundation
Faulty installation		0	0		Recheck installation
Reverse fan rotation	0				Change motor wiring
Inadequate fan speed	0				Check power source
Contact between rotary and stationary parts		0	0	0	Inspection
Impurities sucked in/dust adherence		С	0	С	Inspection/cleaning
Faulty ducting	0	0	0		Duct inspection

(2) Replacement parts kept for at least six years

The company will have available replacement operational parts for the Compact or Low noise type compact size axial flow fans for at least six years after these models are no longer sold. Operational parts refers to those parts which are essential for maintaining the functions of the Product.

(3) Complete after-sale service

If you have any questions about maintenance or other after-sale services, please inquire where you purchased your unit.

5. Specifications

Туре	Model number	Power	Number	Output	Frequen-	Air v	olume	In	Input		Noise level (dB)					
		supply	of poles	(W)	cy	(17	(m³/h)		(W)		Casing side		Suction side		Discharge side	
			or poice			High	Low	High	Low	High	Low	High	Low	High	Low	(kg)
	K250SF1	Single	4	25	50Hz	600	550	34	25	41	39.5	48	46	48	46	5.0
	1120001	-Phase	17.1	EV	60Hz	720	650	40	32	42	41.5	49	48	49	48	3.0
	K28DSR	Single	6	10	50Hz	774	642	21	.21	39	36.5	48.5	46	48	45.5	8.0
	KEUUGH	-Phase	0	10	60Hz	804	702	24	24	39.5	37.5	49	46.5	48.5	46	0.0
	K28DSM	Single	4	20	50Hz	1194	1050	48	48	44.5	42	54.5	52	54	51.5	
	USONOW	-Phase		20	60Hz	1224	1062	59	55	45.5	43	55.5	53	55	52.5	8.0
ompact	WATDOM	Single			SOHz	2016	1782	103	86	45.5	43	56.5	54	56	53.5	
	K35DSM	-Phase	4	60	60Hz	2154	1830	144	112	46.5	44	57.5	55	57	54.5	13.
size		Single			50Hz	2894	2765	226	217	54	52	66	64	65.5	63.5	
	K40DSL	-Phase	4	200	60Hz	3552	3390	340	328	55	53	67	65	66.5	64.5	23.0
axial	Versioner	Three		000000	50Hz	2943	2894	206	196	54	52	66	64	65.5	63.5	1
(800,08)	K40DTL	-Phase	4	200	60Hz	3600	3329	301	288	55	53	67	65	66.5	64.5	20.0
flow		Single				3378	3146									-
HOW	K40DSH	-Phase	4	300	50Hz			242	217	55	53	67	65	66.5	64.5	23.0
1.5	200-0000		0.00	5027(19)	60Hz	3960	3774	375	328	56	54	68	66	67.5	65.5	(2.00)
tan	K40DTH	Three	4	300	50Hz	3210	2873	249	225	55	53	67	65	66.5	64.5	20.0
	333300000000	-Phase	- 70		60Hz	3702	3235	351	320	56	54	-68	66	67.5	65.5	1,0.0
	K45DST	Single	4	550	50Hz	4224	4111	418	330	58	57.5	68	67.5	68	67.5	37.0
	1143031	Phase	7	330	60Hz	5613	5131	570	512	60	59.5	70	69.5	70	69.5	37.3
	K45DTT	Three		EEA	50Hz	4154	4088	424	366	58	57.5	68	67.5	68	67.5	0.11
	N45U11	-Phase	4	550	60Hz	5491	4794	619	553	60	59.5	70	69.5	70	69.5	37.0
	W. Carley	Single	8	233	50Hz	4898	4768	464	367	58.5	58	68	67.5	68	67.5	_
	K45DSL	SL Phase	4	700	60Hz	6342	5797	631	569	61	60.5	70.5	70	70.5	70	37.0
		Three			50Hz	4817	4741	479	415	58.5	58	68	67.5	68	67.5	37.0
	K45DTL		4	700	60Hz	6204	5416									
	DESCRIPTION OF THE PROPERTY OF		-	10,000,000				706	643	61	60.5	70.5	70	70.5	70	
	K45DTH	Three	4	900	50Hz	5454	5250	464	423	59	58.5	68.5	68	68.5	68	37.
		-Phase			60Hz	6522	5789	695	652	65	64.5	72.5	72	72.5	72	0
	K55DTL	Three	4	1,100	50Hz		7414		965	-	63	-	75	-	75	49.
	1133012	-Phase	3	1,100	60Hz		8988	- 2	1469	+ 1	68	4.	81		81	49.
	VEEDTH	K55DTH Three	4	1 500	50Hz	8526	8054	1057	998	-66	65.5	7.8	77.5	78	77.5	2
	N33UTH	-Phase	4	1,500	60Hz	10086	9439	1685	1617	70	69.5	82	81.5	82	81.5	49.5
	NO. 100 PERSON	Single			50Hz	600	550	47	37.2	38	35	44	41	44	41	
	K25USF1	-Phase	4	25	60Hz	720	650	47	37.9	39	37	45	43.5	45	43.5	11.0
- 3	20/20/20/20	Single			50Hz	774	642	25	24	33		38	36.5			-
	K28USR	-Phase	6	10							30			48	45.5	19.5
				_	60Hz	804	702	28	26	33.5	31.5	38.5	37	48.5	46	175
	K28USM	Single	4	20	50Hz	1194	1050	45	42	34.5	32	43	42	54	51.5	20.0
1370	//S25/25/30/0	-Phase	- 23	- 7.7	60Hz	1224	1062	56	51	35.5	34	44	43	55	52.5	
Low	K35USM	Single	4	60	50Hz	2016	1782	107	105	37.5	35	45.5	44.5	56	53.5	30.0
	1100001	-Phase	277	.00	60Hz	2154	1830	137	126	38.5	36	46.5	45	57	54.5	30.5
noise	K40USL	Single	4	200	50Hz	2894	2765	236	208	45	42.5	55	54	65.5	63.5	20.0
I STATISTICS	VAGOR	-Phase		200	60Hz	3552	3390	299	277	46	44	56	55	66.5	64.5	40.0
tipe	The section of	Three	10.	222	50Hz	2943	2894	243	223	45	43.5	55	54	65.5	63.5	11576
-ce-	K40UTL	-Phase	4	200	60Hz	3600	3329	336	309	46	45	56	55	66.5	64.5	40.8
Compact	20020000	Single		1.688	50Hz	3378	3146	323	266	46	42.5	56	55	66.5	64.5	_
- mpatt	K40USH	-Phase	4	300	60Hz	3960	3774	399		47	44					40.0
niza		Three			50Hz				363			57	56	67.5	85.5	1012
SIZE	K40UTH		4	300		3210	2873	281	261	46	43.5	56	55	66.5	64,5	40.0
333	,447(5057701)	-Phase		75,4750	60Hz	3702	3235	391	361	47	45	57	56	67.5	65.5	
axial	K45UST	Single	4	550	50Hz	4224	4111	418	399	52	51.5	58.5	58	68	67.5	50.0
western 1		-Phase			60Hz	5613	5131	570	612	54	53	60	59.5	7.0	69.5	50.1
flow	K45UTT	Three	4	550	50Hz	4154	4088	410	380	52	51.5	58.5	58	68	67.5	50.1
	040011	-Phase	27	330	60Hz	5491	4794	565	565	54	53	60	59.5	70	69.5	50.1
fan:	VIEUCI	Single	- 4	700	50Hz	4898	4768	529	485	53.5	53	58.5	58	68	67.5	
	K45USL	-Phase	4	700	60Hz	6342	5797	788	745	56	55	61	60.5	70.5	70	50.0
		Three			50Hz	4817	4741	510	468	53.5	53	58.5	58	68	67.5	
	K45UTL	-Phase	4	700	60Hz	6204	5416	734	684	56	54	61	60.5	70.5	70	50.0
8	200000000000000000000000000000000000000	Three		1 00000	50Hz											-
	K45UTH		4	900		5454	5250	535	489	53	52	58	57.5	68.5	68	50.0
- 4		-Phase		15,575	60Hz	6522	5789	811	763	57	56	62	61.5	72.5	72	9,211
	K55UTL	Three	4	1,100	50Hz		7414	-	965		56		64	-	75 .	80.0
		-Phase		10.00	60Hz		8988	-	1469	-	59	3.5	67	+	81	00.0
	1100012															
	K55UTH	Three -Phase	4	1,500	50Hz 60Hz	8526	8054 9439	1057	998	59	58.5	67	66.5	78	77.5	80.0

(Note) 1. Values are specified at the static pressure of 0 Pa.

- 2. The air volume is measured according to the chamber method (JIS C9603).
- 3. Noise: suction side-Noise level measured at 1.5m from the suction side.

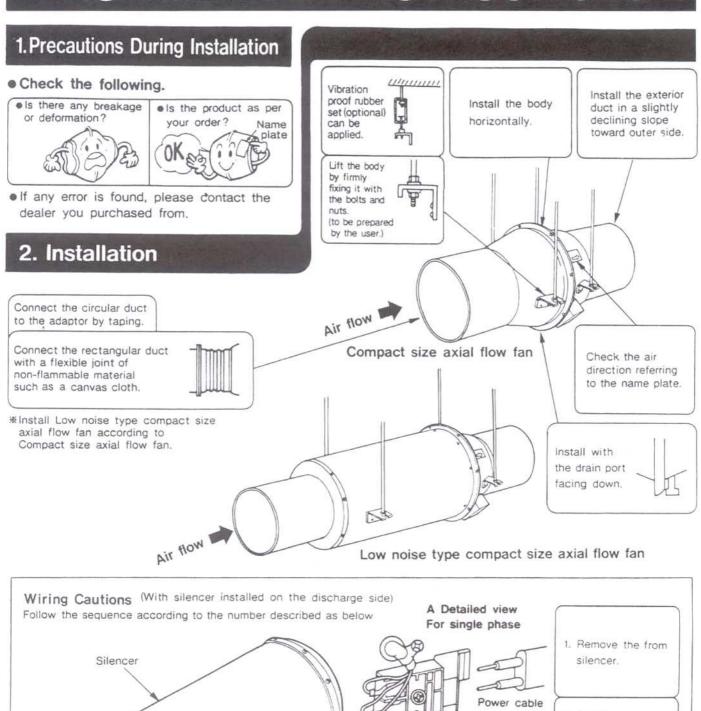
Casing side-Noise level measured at 1.5m from the side of the fan.

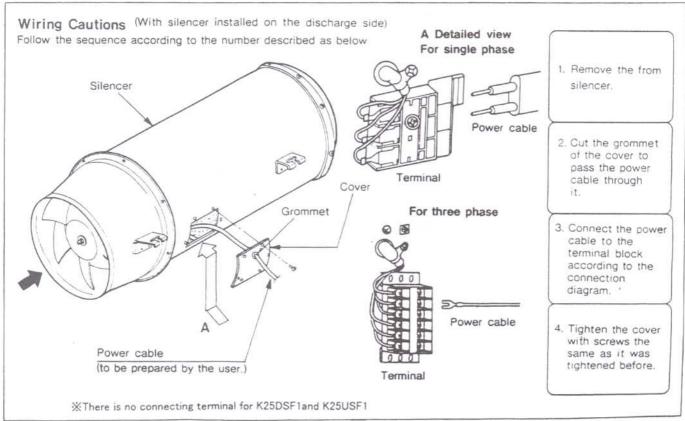
Discharge side-Noise level measured diagonally 1.5m from the discharge side.

* Noise measurement conditions

The suction side of the fan is equipped with a bellmouth and the discharge side is equipped with a duct (2D).

INSTALLATION INSTRUCTIONS





3. Electric Wiring Cautions

Ask the electrical shop for wiring.

- . To the electrical shop who makes wiring.
- Kindly work in accordance with the electric equipment engineering standards and the working standard specified by the power company.
- · According to the electrical installation standard, perfrom the grounding work.
- Connect the line after opening the terminal cover.
- · Kindly connect as indicated in the following drawings.
- · After wiring, check the rotation direction.
- For K55DTL and K55UTL, which do not have two-speed motor, connect the red, white and black lines to the R, S and T terminals, respectively.

